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ABSTRACT

Certification requirements for trade and industrial (T&I) education are unique because (1) the majority of laboratory teachers lack the baccalaureate degree and (2) the teaching content and methodology of T&I education programs vary markedly from other vocational education programs. As a consequence, the Primary concern of T&I certification is centered around various preemployment conditions that differ from those typically required of other vocational education teachers. A study of T&I requirements from 53 states and territories was conducted using data collected from printed certification regulations. The data were categorized as preemployment requirements, occupational experience requirements, certification requirements, and renewal requirements. From the data, comparative tables were developed for requirements in the areas of work experience, recency of work experience, occupational skills evaluation, basic skills evaluation, preemployment requirements, new teacher orientation courses, degree completion, certificate levels and renewal periods, highest level for full certification, and courses needed for initial and later levels of certification. The study found that only two states required bachelor's degrees for initial certification, whereas 10 states required the degree for full certification. The other 41 states granted full certification at less than degree level. (Following the brief study report and 21 references, the bulk of the document consists of extensive state-by-state comparative tables.) (Author/KC)

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TRADE AND INDUSTRIAL EDUCATION REQUIREMENTS IN THE UNITED STATES AND TERRITORIES

A STUDY CONDUCTED
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Abstract

Certification requirements for trade and industrial education (T & I) are unique because (1) the majority of laboratory teachers lack the baccalaureate degree and (2) the teaching content and methodology of T & I programs vary markedly from other vocational education programs. As a consequence the primary concern of T & I certification are centered around various pre-employment conditions which differ markedly from those typically required of other vocational education teachers.

The purpose of this study was to collect and abridge T & I certification data from 53 states and territories for the purpose of aiding state departments of education and other agencies to make comparative studies for certification study and improvement.

Data collected from printed certification regulations received from 53 states and territories was abridged and categorized as (a) pre-employment requirements (b) occupational experience requirements, (c) certification requirements and (d) renewal requirements. From the aforementioned data, comparative tables were developed in the areas of (a) work experience requirements, (b) recency of work experience requirements (c) occupational skill evaluation requirements (d) basic skills evaluation pre-employment requirements (e) new teacher orientation courses/workshops, (f) states with requirements leading to degree completion, (g) certificate levels and renewal periods, (h) highest level for full certification, (i) course/workshop requirements for initial certification, (j) course/workshop requirements for second level certification and (k) course/workshop requirements for third and successive levels of certification.

Comparative data and corresponding specialized regulations were analyzed and discussed. Evolving patterns in state T & I regulatory standards were delineated. Although the emergence of new concepts was in evidence, no attempts at standardization or reciprocity were observed.

B.S. degree requirements for initial certification were found for only two states. Ten states required the B.S. degree for full certification. The remaining 41 states specified full level certification at a point less than the B.S. degree.

Perspective

The preponderance of teachers in the nation who hold non-baccalaureate degree certification is in the field of Trade and Industrial Education (T & I) (USDE, 1985). Because a large number of these teachers are recruited directly from business and industry rather than from a collegiate setting, pre-employment requirements as well as specialized in-service certification progression are delineated by state departments of education (SDE) in all states and territories. Such requirements vary greatly among the states but generally include (a) years of occupational experience (b) recency of such experience (c) evaluation of occupational experience, (d) basic academic skills evaluation, (e) pre-service orientation requirements, (f) progressive certificate levels and requirements, (g) full certification requirements and (h) renewal of the full certificate.

State department of education T & I certification requirements deal with some or all of the aforementioned conditions in establishing regulatory standards. The aforementioned mode of certification differs markedly from typical initial vocational teacher certification which is based primarily on approved degree requirements.

With an increased thrust among T & I personnel to achieve greater status among all education practitioners, state departments

of education have raised standards markedly during the past decade. This new emphasis is also in part due to the recommendations of a United States Office of Education Study (USDE, 1985) which dealt with recommended standards for T & I programs.

PURPOSE AND OBJECTIVES OF STUDY

This study was descriptive in nature. The primary purpose was to gather T & I certification information from all states and territories for the purpose of aiding certification committees in (a) making comparative assessments and (b) gaining new insights into emerging trends. Improvements in new certification can only come about if new concepts developed throughout the nation are shared.

The specific objectives of this study were to collect, analyze and discuss the following T & I certification data from 53 states and territories:.

1. work experience requirements
2. recency of occupational experience
3. basic skills evaluation pre-employment requirements
4. occupational skill evaluation requirements
5. new teacher orientation course/workshop requirements
6. states with requirements leading to degree completion
7. certificate levels and renewal periods
8. highest levels for full certification
9. courses/workshops required for initial certification
10. courses/workshops required for second level certification

11. courses/workshops required for third and subsequent levels of certification.

REVIEW OF LITERATURE

There is a paucity of published research in the vocational certification area. An exhaustive search reveals virtually nothing conclusive regarding the relationship between quality teaching and types of certification requirements. Nearly all states reported dealt with one or more of the eleven variables indicated in the aforementioned objectives.

Miller, (1982) and Sherman (1983) indicated that T & I teachers differ markedly from teachers from other disciplines in the type of abilities required to function effectively in a laboratory environment. They differed from academic teachers in that (1) the major "field" is primarily learned on-the-job and (2) the requirements of good laboratory and live work management differ markedly from other teaching environments.

Sherman (1983) indicated that cognitive and psychomotor skills taught by T & I teachers change constantly as technology changes, therefore a continual upgrading must play a substantial part in T & I certification requirements. Because students move directly from the instructional setting to the employment market without a time lapse, the updating component becomes critical.

Sherman also pointed out that although many one and two year post-secondary programs are offered in certain T & I specialties,

there are relatively few four year programs in one trade, i.e, welding, masonry, cabinetmaking, etc. Furthermore all SDE requirements still require on-the-job occupational experience. For this reason T & I teachers are unique in that the knowledge and skill of the specialty must be learned on the job.

Another aspect of the uniqueness of T & I certification which should be addressed is that vocational teachers, as a group were preparing students to enter very different settings than are their academic counterparts (NOICE, 1982). In the T & I area students were involved with OSHA regulations, union and management functions, differing work environments and a host of other conditions which enabled students to function effectively on the job. It follows then that T & I teachers can only learn such content through on-the-job experience.

Noting the aforementioned differences between vocational and academic teaching preparation, it only follows that T & I certification also must fit these unique needs.

The actual practice of T & I certification has varied widely during the past 12 years. Miller and Roehrich (1977) indicated that most states had some kind of modified approach for T & I certification. The differences existed not only across service areas, i.e. business education, agricultural education, etc., but also within service areas as was the case for T & I. Even standards for secondary and post-secondary teacher certification may differ within the same state. Usually however, post-secondary vocational education teachers were not required to hold a teaching

certificate. Miller (1982) found that all 50 states studied required valid work experience as a cornerstone for valid secondary certification. This concept dates back to the Smith-Hughes Act of 1917 (Roberts, 1971) which specified that only persons with practical work experience be allowed to teach in pre-employment programs.

In the T & I areas the shortage of degreed teachers has led some state departments of education to develop certification systems which required or encouraged teachers to pursue the B.S. degree. Ramp and Reeder (1970) found that 16 states had regulations which led to a B.S. degree for full certification. The United States Department of Education Standards Study (USDE, 1985) indicated that only 14 states still adhered to this requirement.

Many states identified specific course content either in terms of course titles or areas of study. Brantner (1974) indicated that thirty-three (46 percent) of the states listed such requirements. He found "Methods of Vocational Teaching" was most often required while "Tests and Measurements" and "Vocational Guidance" were the least specified.

Terry and Davis (1980) ranked critical competencies necessary for "survival" in the T & I classroom and laboratory. This study reflected the need for a high level of T & I certification programs. These competencies were:

1. Principles of learning applied to teaching.
2. Methods and/or techniques of teaching vocational subjects.
3. Analyze an occupation.

4. Develop a weekly instructional plan.
5. Prepare a lesson plan.
6. Develop instruction sheets and use them effectively.
7. Teaching aids, their use and limitations.
8. Use audio-visual aids effectively in the classroom.
9. Teach at students' level and rate of learning.
10. Select instructional materials and references suited to students' levels and interest.
11. Select appropriate jobs and other learning activities based on students' needs, aptitudes, interests and abilities.
12. Evaluating and recording students' achievements.
13. Maintain progress charts and records of individual student achievement.
14. Develop and implement a safety program.
15. Safety practices in teaching the operation of equipment.
16. Develop students' attitudes toward safe practices and safety-consciousness in job performance.

Because only 14 states required the B.S. degree for full certification, the remainder of states and territories still designated full certification levels which varied widely in level and renewal requirements. Brantner (1974) found that T & I teachers who were working toward full certification were still certified in some form, usually with a Provisional or Level 1 type of certificate. This credential protected the teacher legally

regarding state tenure laws.

Welch and Garner (1978) in a Pennsylvania study found that the only significant certification variable which had a positive effect on student achievement was the amount of appropriately related college coursework completed by the teacher. The study did not support a college degree as being necessary, nor was a recommendation for an optimum number of college credits.

Brantner (1974) noted that most states (36) which did not require a B.S. degree for full certification still had provisions which allowed or encouraged the T & I teacher to reach that goal.

In the areas of academic requirements, the Standards of Excellence in Trade and Industrial Education (USDE, 1985) project concluded that although college credits earned do affect teacher effectiveness, there is no clear-cut evidence that a degree is necessary to affect a high degree of student achievement.

In the area of work experience there was a great variation from state to state. Brantner (1974) found that the lowest SDE requirement was 2,000 hours during the past 10 years with an additional amount of hours waived for technical school experience. The highest requirement for non-degree teachers was 16,000 hours. Brantner's later study (cited in USDE 1985) showed the same range of work experience requirements. He concluded, however, that the general trend was toward more occupational experience requirements for full certification.

Warner's study (cited in USDE, 1985) supported Brantner's conclusions but also indicated that, among 50 states studied,

occupational experience credits were tending to decrease as educational requirements increased. He indicated that many states required an additional number of hours of occupational experience "beyond the learning period." This learning period varied in interpretation, but usually included a BS degree as one definition of the learning period. Hence, AS or BS degree graduates may very often substitute a commensurate amount of collegiate work for occupational experience.

Whether an increased amount of work experience resulted in increased teaching competency is still unresolved. Welch (1980) contended that there was no positive relationship between work experience in years and occupational competencies. Hux (1980) refuted this notion by concluding that there was a positive relationship. The optimum amount of work experience necessary for establishing teacher competency has not been studied sufficiently to draw any specific conclusions.

The level of work experience also varied among the states. According to Warner (1980), eleven states accepted only work experience "above the learner level." Other states accepted all levels of work experience or made no statements regarding this issue.

The concept that occupational knowledge and skill should translate into college credit for the T & I teacher has been gaining in momentum. Virginia Polytechnic Institute and State University and the University of Tennessee were awarding such credit since 1968 (Duenk, 1968). Since the National Occupational

Testing Institute (NOCTI) was established in 1970, more credence was based upon testing for both certification and college credit. Ramp and Reeder (1970) found that only three states required successful completion of an occupational competency test in 1970. In 1977 Miller and Roehrich reported that the number had increased to 8 with one state pending. The USDE Standards study (1985) found that 12 states required such an examination. Sherman (1983) was strong in his feelings that certification should be based upon scientifically established competency in an occupation.

Many states have established NOCTI testing centers. Georgia incorporated NOCTI competency examinations as part of the certification process in 1980 (Klein and others). Pennsylvania in 1983 initiated The Pennsylvania Occupational Testing Program. (Pennsylvania Bureau of Vocational and Adult Education 1985). Other states have followed suit and a study by Milanovich (1986) reported that 21 states were using skill competency testing as part of certification requirements for secondary or postsecondary personnel.

There have been several new concepts emerging in vocational teacher certification. Virginia Polytechnic Institute and State University (Wildman and others, 1957) is experimenting with a "Teachers Learning From Teachers" program where certification and mentorship are tied together during the provisional certificate period. Several states now require beginning teacher workshops (Ohio State Board of Education, 1987) prior to teaching. Point systems (Virginia Department of Education, 1988) allow points for

certain non-college activities to count for both initial and renewal requirements. Missouri (MO Dept. of Secondary & Elementary Education (1987)) requires attendance at SDE sponsored conferences to maintain certification. Persons with degrees in non-vocational areas may certify in some states by verifying occupational competency and taking specified courses (Utah State Office of Education, 1987).

Methodology

The raw data utilized in this study was elicited from printed T & I certification requirements submitted by state departments of education in 50 states, District of Columbia, Puerto Rico and Virginia Islands. Trust territories of the Pacific and Guam did not respond to inquiries for information. The names and addresses of T & I supervisor's were obtained from the Directory of Federal and State Officials published in School Shop, September, 1988. In those cases where no person was listed as being directly responsible for T & I programs, a phone call was made to ascertain the name and address of the correct individual.

Forty-one responses were gained from the first request for information. The second request produced four responses. The remaining responses were gained through phone inquiries to state certification departments.

A format for collecting data was submitted to a panel of experts and decisions were made regarding parameters of the materials to be collected.

Inasmuch as the information received was voluminous and was

documented in a variety of ways, the T & I certification materials were abridged and categorized as follows:

1. Pre-employment requirements
    a. Diploma/degree level required
    b. Occupational competency evaluation requirements
    c. Basic skill competency requirements
    d. Licensure requirements
    e. Pre-service orientation/course requirements
    f. Prior coursework/seminar requirements
    g. Other
2. Work experience requirements
    a. High school graduate
    b. Post-secondary graduate
    c. BS/BA or higher graduate
    d. Recency requirements
    e. Other
3. Certification requirements
    a. Titles of certificates
    b. Requirements for each level
    c. Renewal requirements for each level
4. Renewal
    a. Renewal of full certificate requirements

Only occupational preparatory program certification was extracted. Information dealing with specialized requirements for industrial cooperative training, related subjects, T & I/special education and apprenticeship were eliminated from the study in the

interest of (1) brevity and (2) a need for identical standards for comparison. This study was limited to secondary T & I certification, although in a few states where T & I secondary and post-secondary certification were administered by the same agency and were comingled, post-secondary information was listed for clarification purposes.

In cases where the materials were not clear, phone calls were made to state department of education officials and certification authorities for further clarification. In numerous situations there were contradictions between requirements as listed in the certification manuals and actual practice as confirmed by telephone. In such cases, printed back-up materials issued by the T & I state agency were requested to validate the accuracy of information.

Following the completion of the aforementioned abridged T & I certification descriptive document, copies were sent to the original respondents in the 53 states and territories. An accompanying letter requested that the document be examined for accuracy and returned within a two week period if errors were noted (Appendix A). Fourteen states respcnded with requested corrections. The original document was modified and distributed to those respondents who had requested copies.

The T & I certification document (Appendix A) was reviewed by an expert committee to assess ways of recording descriptive materials for use by certification committees and others as sources for comparative data. The decision was made to compile the data

into 11 areas as follows:

1. Work experience requirements.
2. Recency of occupational experience.
3. Occupational skill evaluation requirements.
4. Basic skill evaluation pre-employment requirements.
5. New teacher orientation courses/workshops.
6. States with requirements leading to degree certification.
7. T & I certification levels and renewal periods.
8. Course/workshop requirement for initial certification.
9. Course/workshop requirements for second level certification.
10. Course/workshop requirements for third and successive levels of certification.
11. Highest level for full certification and renewal requirements.

Tables were developed for each of the aforementioned areas to present pertinent comparative information which could serve as a basis for T & I certification upgrading and to note evolving concepts in state regulations.

Results

Occupational Work Experience Requirements

Appendix B describes occupational experience requirements for beginning teachers. Differentiation is shown for teachers starting at (a) high school or GED level (b) postsecondary (in an occupational specialty) level and (c) baccalaureate degree level. The lowest and highest requirements for the different levels follow in Table 1.

Wisconsin and Hawaii did not offer certification below the

Table 1. Highest and Lowest Work Experience Requirements

Start. Level	Low (Hours)	High (Hours)
HS/GED	KS., 4,000 MI., 4,000 MS., 4,000	ID., 16,000 NV., 16,000, 2 yrs. at supervisory level SC., 16,000
2 yrs. PS	IL., 2,000	LA.. 4,000 (journeyman level) NV., 12,000 SC., (sliding scale may be as high as 16,000 for Level 1
BS/BA	AZ., 2,000 (degrees in spec) GA., 2,000 (BS counts as 8,000) IL., 2,000 KY., 2,000 MN., 2,000 NY., 2,000 (BS + 30) SC., 1,000, class III UT., (Pass NOCTI) WI., 2,000	CN., 6,000 (2 yrs. for schooling) DC., 6,000 (degree in speciality) ID., 6,000 (degree in speciality) IA., 6,000 (degree in speciality) MA., 6,000 (degree in speciality) MT., 6,000 (degree in speciality) OK., 6,000 (degree in any area) SC., 8,000 (sliding scale, C1-I) VI., 6,000 WA., 6,000 (beyond learning per.) WV., 6,000 (degree in speciality).

baccalaureate degree level. Oregon and Rhode Island based work experience upon local district committee decisions. No attempt was made to interpret the requirements of states which did not have differentiations in work experience at the 3 different starting levels. Wyoming, for example, lists 4,000 hours above the learning period for all levels. Without an interpretation of the meaning of "learning period" as translated to work/collegiate experience, no conclusions could be drawn. Delaware, on the other hand, listed the same requirements but identified state licensure, NOCTI examination or apprenticeship as equivalent to the learning period. Several states equated the BS degree with a four year "learning period."

Recency of Occupational Experience

Thirty states did not have recency of work experience written into T & I certification (Appendix C). Phone conversations with T & I supervisors indicate, however, that most states do consider occupational recency but the decision is left up to state or local discretion. In Appendix C only recency requirements are listed which can be supported by regulation, either from state certification manuals or from materials distributed by a state T & I agency. The least restrictive regulation (Florida) indicates "six weeks in past two years." Virginia, on the other hand, requires that all work experience (two years beyond the learning period, or 12,000 hours, be in the past ten years). Louisiana, Ohio and South Dakota have based recency on educational background.

Nebraska had two different options which tied recency of work experience with collegiate supervised employment. Arkansas, Kansas, Louisiana, Maine, Missouri, New Jersey and New York Jersey and New York had full time requirements for all or part of their work experience regulations. Colorado required "paid" experience in the regulations. Phone conversations with numerous other T & I supervisors indicated that paid experiences were most desirable but that the actual decisions were subjective depending on individual situations. New Hampshire indicated in the regulations that recency of work experience was a local decision.

Occupational Skill Evaluation

The trend in recent years has been away from complete dependance upon clock hour requirements and toward occupational competency assessment. In Appendix D the occupational skill evaluation requirements for T & I teachers are indicated. Currently there are 8 different types of evaluation in use among the 53 states and territories. The most common type of occupational evaluation was licensure in occupations as designated by each state. Cosmetology was licensed in all states and territories. In some states health occupations were classified as T & I and a large group of health technologies taught in the public schools were licensed. Plumbing and auto mechanics were noted frequently in the regulations. No attempt was made to list the licensed occupations for each state because such statements as "Licensure as designated by state regulations" were often given, making it difficult to gain an accurate listing. Twelve states

required the NOCTI examination (or equivalent) as necessary in the certification process. Eight states utilized NOCTI as one option for T & I certification. Arkansas and Nebraska utilized the NTE core battery or the NOCTI. Ohio and South Carolina developed many of their own competency examinations. Certification in Colorado, Florida, and Georgia indicated that teachers may utilize occupational licensure in lieu of the NOCTI or equivalent. Phone conversations indicated that this policy was followed by many state departments of education although (1) it was not specifically listed in the regulations (2) it may be classified under the "or equivalent" category.

Basic Skills Evaluation Pre-employment Requirements

The basic skill pre-employment requirements for non-degree T & I teachers are shown in Appendix E. In most states these regulations apply to all non-degree teachers, although the majority are from T & I. In 25 states some type of basic skills test is mandated by regulation. The instruments used vary in scope and content but most deal with general intelligence, reading/writing skills and mathematics. The Pre-professional Skills Test (PPST) was mandated by 3 states. The National Teachers Exam was required for non-degree teachers in 2 states while a third required that the NTE be completed at the end of the provisional certificate period. The aforementioned test was used in several states for all degreed teachers, however this information is not included in Appendix E because this study was concerned primarily with non-degree pre-employment requirements. New teachers who have not attended a

university would obviously have a great deal of trouble passing Part B of the NTE.

In Georgia, Hawaii, New Jersey, New York, Pennsylvania and Wisconsin, enrollment in an approved university program eliminates the need for another basic skills evaluation as this function is being performed at the collegiate level. Alabama, Arizona, Connecticut, Florida, Massachusetts, Pennsylvania and South Carolina have developed some of their own testing instruments. It is noted that Pennsylvania utilizes both its own instrument as well as collegiate assurance of basic skill achievement.

Colorado may use an optional oral examination during the first year of teaching. Please note in Appendix E that in several states basic skills testing can be pre-employment or completed during the initial in-service employment period. Louisiana was the only state which allowed the localities to develop and administer their own basic skills tests.

<u>New Teacher Orientation Courses/Workshops</u>

Appendix F shows the non-degree T & I certification requirements for new teacher orientation/workshops. Nineteen states listed such requirements in their certification requirements. Phone conversations with numerous state supervisors indicate however, that such workshops were a part of the State T & I Conference or were held on an informal basis but were not listed in the regulations. Only seven states required that these courses bear college credit. Eight states required non-college credit workshops and seven states allowed credit for either college

or non-college experiences. College credit was specified as either 2 or 3 semester credits in all cases. Clock hours for non-collegiate activities varied from a low of 24 clock hours to a high of 60 clock hours. In Colorado, Minnesota, North Carolina and Washington specific courses titles/areas were listed as requirements. Maine and New Hampshire listed local option requirements. New Mexico, Pennsylvania and Vermont required local development plans which were submitted to and approved by SDE.

Most states required the new teacher orientation experience as a pre-employment condition but did have provisions for completing the workshop or courses during the specified period of time if a teacher was hired late. Nine states listed "first year of employment" as a requisite time condition.

States With Requirements Leading to Degree Completion

The states with requirements leading to degree completion are shown in Appendix G. A close examination of SDE T & I. certification requirements indicated that many states had requirements which enabled but did not require non-degree teachers to reach either AS or BS degree levels. The rationale of this situation was based upon the concept that many T & I teachers were in an age bracket where pursuit of a degree was impractical from a time and money standpoint. To plan a program, then, where a degree is required for full certification, may discourage well qualified individuals from entering teaching as a career. Furthermore, even younger persons who have few or no collegiate credits may look upon the certification process as "never ending."

Seven states had non-degree requirements which led to BS degree completion. Georgia and Kentucky required completion of the AS degree for full certification. South Dakota required completion of the AS degree before renewal of the five year certificate. Hawaii and Wisconsin required the BS degree for initial endorsement. Even states which accepted the AS as full certification did provide avenues which encouraged BS degree completion. In many cases NOCTI examination credit encouraged teachers to move ahead toward a degree. Also salary adjustment based on credit earned, acted as a further inducement toward degree completion.

In all states listed in Appendix G except Hawaii and Wisconsin, admission to a university program was a requirement of level one certification. A program planned and monitored by the university is more likely to tie in with a feasible delivery system. In Hawaii and Wisconsin, the B.S. degree was a prerequisite to initial certification. The work experience requirements in these states were completed (a) as a collegiate internship process and/or (b) as a paid on-the-job experience.

Certificate Levels and Renewal Periods

In Appendix H the various certification levels and renewal periods which lead to full certification for Trade and Industrial Education teachers are shown. Alaska, Nebraska, Puerto Rico and Wyoming have mandated only one level for non-degree personnel. All of the aforementioned states have renewal requirements where advancement to a higher level of certificate was not required for

non-degree personnel. Wisconsin's single full certification level was for degree teachers only. At the opposite end of the spectrum, Kansas, Michigan, North Carolina, Ohio, Pennsylvania, Tennessee have specified 4 levels. It should be noted, however that teachers were not always required to hold all levels before reaching full certification. Michigan, for example had an Annual Authorization (not considered a certificate) which was utilized only when second level qualified teachers were not available. New York T & I teachers may start at any level, depending on a combination of prior education and work experience. The same was true for several other states. Such information can be determined from examining the abridged T & I requirement for 53 states and territories found in Appendix A.

Renewal periods varied from annual initial renewals found in twenty-four states to 1 state which had a 10 year initial renewal. The latter (Wyoming) required that teachers advance at a rate of 4.5 semester credits per year up to a total of 60 semester credits. At higher levels of certification the longest renewal period was found in Alabama which allowed 10 years for renewal of the highest (full) certificate. Time requirements were not mandated for the second and third levels of Ohio certification. Instead, teaching experience and credit requirements determined the length of certification. Life certificates at the full certification level were given to Illinois, Maryland, New Jersey, Rhode Island and Texas. Localities enforced renewal at one or more levels in Connecticut, New Hampshire, and New Jersey.

Renewal periods may be extended upon request in most states. In Idaho the initial certificate, although valid for one year may be renewed as long as progress toward the second level is evidenced. In Illinois the first level certificate may be renewed only if no person qualified for higher certification is available.

Highest Level for Full Certification and Renewal Requirements

Although the highest levels for full certification are found in the previous table, the requirements for maintaining this level are shown in Appendix I. The requirements varied from no renewal requirements (life) to completion of B.S. degree requirements. In Hawaii where a B.S. degree was required for initial certification, no renewal requirements were required unless the teacher had not taught continuously and wished to reinstate the certificate. In Wisconsin, another state which required the BS degree for initial certification, 6 semester credits were required, approved locally. One-half of the renewal may be accomplished by approved supervised work experience.

Staff development workshops, either college credit or non-college (clock hours), were given as an option or requirement in thirty-three states. Attendance at state T & I conferences, although an option for renewal in many states was required in Kansas and Missouri. A point system for designated activities, combined with college credit was required for Virginia full level certification. Renewal of full certification was initiated and monitored by the locality in Maine, Mississippi, New Hampshire and North Dakota. Texas issued a life certificate but also allowed

school districts to require coursework or in-service.

Courses, Workshop Requirements for Initial Certification

Appendix J shows professional education, general education and other requirements required for initial certification. Thirty-two states had specific professional education course/workshop requirements for initial endorsement. Nine states delegated this responsibility to the universities where teachers were enrolled in degree programs as approved by SDE regulations. In two states, New Hampshire and Oregon, a plan for all certification requirements was planned by the locality and submitted for SDE approval. In the remaining 12 states professional requirements were not specified separately from other requirements, i.e, 9 cr. of approved courses, etc. The most frequent professional course requirement for initial certification was Methods of Teaching, required by ten states. The least frequent requirements were safety, educational psychology, and youth organizations, required by one state each. Eleven states allowed teachers to select from a designated list of professional course areas.

Twelve states required general education courses for initial certification. Six states allowed selection from a given list of general education areas. The remainder of states required courses in specific areas or allowed some selected courses along with designated required courses or general education areas.

Thirty-seven states had supplementary requirements which did not fit the aforementioned professional or general education course/area requirements. These were:

a) local plan submission.

b) new teacher workshops

c) college/non college specialized workshops

d) accomplishment of designated SDE/local competencies

e) degree requirement (AS or BS degree)

f) submission of a university degree program

g) any type of approved courses

The total initial college credit requirements varied from no credits/workshop (Arizona, option A) to the BS degree (Hawaii and Wisconsin). The total clock hours for non-college activities varied from 0 (41 states) to 140 days (840 hours of internship) (Kentucky).

Course, Workshop Requirements for Second Level Certification

Appendix K shows the course/workshop requirements for second level certification. Shown are the experiences required to progress from the second level to the next which may be a renewal of the previous certificate or to the next certificate title. The data was organized in the same manner as Appendix J.

Only nine states required specific areas or courses to be completed in the professional education area. Sixteen states permitted selection from a designated list or selection of any professional courses. Nine states delegated professional course selection to the university where a teacher was enrolled for completion of the full certificate. Thirty-two states had additional requirements which included:

a) local plan submission

b) college/non-college specialized workshops

c) accomplishment of designated SDE/local competencies

d) degree requirements (AS or BS)

e) progression in a university degree program

f) any type of approved courses

The total college credits required varied from no credits (states which do not have a second certification level) to 60 semester credits. Clock hours of non-college activity varied from 0 to 135.

Courses, Workshops for Third and Successive Levels of Certification

Appendix L shows the courses and workshops required for third and successive levels of certification. Only twenty-four states had more than two levels. Seventeen states had three certificate levels and seven had four certificate levels. College credits required vary from 0 (Maryland) to BS degree completion (See Appendix G).

SUMMARY AND CONCLUSIONS

Teachers of trade and industrial education have unique certification requirements because (1) most teachers are hired without the baccalaureate degree and (2) the content area differs markedly from that of the academic teachers. The primary areas of concern in T & I certification are (a) years of occupational experience (b) recency of such experience, (c) evaluation of occupational experience (d) basic academic skills orientation (e) pre-service orientation requirements, (f) progressive certification levels and requirements (g) full certification and (h) renewal.

The purpose of this study was to gather data which would be an aid in making comparative assessments and gaining new insights in certification.

The raw data was gathered from requirements as delineated in SDE certification regulations provided by 53 states and territories. Information was abridged and categorized into (a) years of occupational experience, (b) recency of such experience, (c) evaluation of occupational experience, (d) basic academic skills orientation, (e) pre-service orientation requirements, (f) progressive certification levels and requirements, (g) full certification and (h) renewal.

The purpose of this study was to gather data which would be an aid in making comparative assessments and gaining new insights in certification.

The raw data was gathered from requirements as delineated in SDE certification regulations provided by 53 states and territories. Information was abridged and categorized into (a) pre-employment requirements (b) work experience requirements (c) certification requirements and (d) renewal requirements. From the aforementioned information, comparative tables were developed for (a) occupational experience requirements, (b) recency of work experience, (c) occupational skill evaluation, (d) basic skill evaluation pre-employment requirements, (e) new teacher orientation courses/workshops, (f) states with requirements leading to degree completion, (g) T & I certification levels and renewal periods, (h) course/workshop requirements for initial certification, (i)

course/workshop requirements for second level certification, (j) course/workshops requirements for third and successive level certification and (1) highest level for full certification and renewal requirements.

In all of the aforementioned categories wide variations were found in SDE regulations. In no state would the requirements be similar enough to be considered reciprocal. This is in direct contrast with typical academic requirements where reciprocity is common. Trends toward pre-employment requirements standards are indicated. Full certification standards are becoming more vigorous, although degree requirements for full certification have stayed relatively stable.

New concepts in certification are emerging especially in the areas of basic skill pre-employment requirements, college credit in lieu of designated amounts of occupational experience, salaries based on combination of work experience and college credit and increased experiences required from full certification.

RECOMMENDATIONS

1. There are few studies which provide comparative certification data. Data in the areas delineated in this study should be gathered and compared periodically in order to observe certification trends.

2. Data gathered in this study should be compared with certification standards recommended in Standards for Excellence in Trade and Industrial Education (USDE, 1985).

3. The descriptive data provided in this study should be studied

by state departments of education certification committees to develop new concepts in non-degree T & I certification.

4. Cooperative certification agreements among various state departments of education would enhance the possibility of reciprocity of T & I non-degree certification.

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Appendix A

TRADE AND INDUSTRIAL EDUCATION CERTIFICATION REQUIREMENTS IN THE UNITED STATES AND TERRITORIES

Revised August, 1989

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Blacksburg, Virginia 24061-0254

SUMMARY OF STATE TRADE AND INDUSTRIAL SECONDARY EDUCATION CERTIFICATION

ALABAMA

I. Pre-employment Requirements

A. H.S. or GED
B. NOCTI (pending) (If licensed, not required)
C. Basic English test (pending)
D. Approval by SDE
E. Licensure as designated by state regulations

II. Work Experience

A. H.S.graduate: seven years out of last ten
B. Two year Postsecondary graduate: three years out of last eight

III. Certification

Title: Day Trade III (four years)

A. One week teacher institute: pre-service (first year teaching with permission)
B. Work on 12 semester hours of the following at the rate of one course per year:
   1. Methods of teaching trade and industrial education
   2. Development of vocational education in the U.S.
   3. Occupational analysis and course construction
   4. Development of instructional materials (no CEU or non-college credit allowed)

Title: Day Trade II (eight years, may be seven years teaching, one year working in the specialty)

A. Have completed requirements for Day Trade III.
B. Show evidence of advancement in completing 30 credits from the following:

   1. English (six-nine semester credits required)
   2. History (six-nine semester credits required)
   3. Psychology (three-six semester credits required)
   4. Economics (three-six semester credits required)

5. Mathematics (three-six semester credits required)
6. Science (six-12 semester credits required)
7. Social Studies (three-six semester credits required)
8. Drafting (three-six semester credits required)
9. Educational Methods (three-six semester credits required)
10. Geography (three-six semester credits required)
11. Political Science (three-six semester credits required)

IV. RENEWAL

* Day Trade Type I (Ten years, may be nine years teaching, one year working in the specialty)
A. Have completed requirements for Day Trade II
B. Local inservice, approved by SDE
C. New proposal pending: six semester hours each five years, approved locally by SDE

If the Day Trade Certificate is not continued on date of lapse, it may be reinstated if the holder has been employed as a wage earner in a trades and industries enterprise and in the occupation to be taught for at least one year within the five years immediately preceding the date the certificate is to bear. Wage earning experience must be submitted on the proper form to the Director of The Division of Vocational Education Services for approval. The validity period of the reinstated certificate will be for the same number of years as the original certificate.

* Pay equivalent to M.S. degree

ALASKA

I. Pre-employment Requirements

A. H.S. or GED (desirable, but not required)
B. Letter from superintendent
C. Approval by SDE
D. Licensure as designated by state regulations

II. Work Experience

A. H.S. graduate: four years of full time experience
B. H.S., Vocational program or Postsecondary Technical Institute graduate may substitue up to two years. Recommendation letter from training agencies required.

III. Certification

Title: Vocational Trades Certificate, Type D (two years)

A. Three semester credits approved by locality and SDE

IV. RENEWAL

The Vocational Trades Certificate, Type D is renewable any number of times upon completion of three semester credits (not specified) or additional work experience/ additional training approved by SDE.

ARIZONA

I. Pre-employment Requirements

A. Option A - H.S. plus 6,000 hours
B. Option B - BS plus 30 semester hours (major in Industrial Education) plus 2,000 hours
C. Arizona Teacher Proficiency Exam (ATPE) (may also be taken first year of teaching)

II. Work Experience

A. H.S. graduate: 6,000 hours
B. BS or BA in specialty: 2,000 hours
C. BS/BA in any area: 5,000 hours
D. No recency requirement

III. Certification

Title: Provisional Vocational Certificate (one year renewable) Work experience requirements met

Title: Basic Provisional Certificate (six years, renewable) issued upon completion of the following:

A. Fifteen semester credits of professional trade and industrial preparation courses (upper division or graduate credit)
B. Complete ATPE

Title: Standard Vocational Certificate (six years, renewable) Issued upon completion of the following

A. Meet qualifications for Basic Vocational Certificate in Trade and Industrial Education

B. Thirty semester hours of course work leading to a degree in Trade and Industrial Education

IV. Renewal

(Six years, renewable for life) No renewal requirements

ARKANSAS

I. Pre-employment Requirements

A. H.S. or GED
B. NOCTI (or equivalent) or NTE. (can retake both with SDE permission). Usually pre-employment, but can take within first year of teaching
C. Licensure as designated by state regulations

II. Work Experience

A. High School graduate: five years or two years recent experience and NOCTI

III. Certification

Title: *One Year Provisional Certificate* (renewable once)

One-year provisional certificates in the Trade/Technical and/or Industrial areas may be issued to allow time for administering the NOCTI or equivalent examination(s) and for completion of the vocational hours requirement.
Educational and work experience requirements must be met before making application for the one-year Provisional Certificate.

A. Nine semester hours at the rate of six semester credits per school year. Courses selected from the following areas:
   1. Shop organization and management
   2. Methods of teaching in T & I Education
   3. Program/curriculum design and development in T & I Education
   4. Job analysis
   *5. Coop/internship education
   PBTE modules may suffice for these requirements when evaluated through the university.

B. Pass Arkansas Educational Skills Assessment Test (Pending). Applicants who do not pass must take a minimum of 90 clock hours (six semester credit) in mathematics, reading and writing.
*Required for Industrial Cooperative Training

Title: Six Year Certificate

A. Complete all previous requirements for issuance of this certificate

IV. Renewal

Five days of inservice education/staff development for each subsequent year of employment. This is planned by local school superintendent and monitored by State Department of Education.

CALIFORNIA

I. Pre-employment Requirements

A. H.S. graduate or GED
B. Locality may use NOCTI or other approved assessment test
C. No SDE requirements on assessing occupational competency
D. Licensure as designated by state regulations

II. Work Experience

A. H.S. graduate or GED
B. As graduate or 48 semester hours of post-secondary vocational training: 6,000 hours
C. BS/BA: 4,000 hours
D. Recency requirement: one year of work experience must be in the last three years

III. Certification

Title: Preliminary Credential (1 year; may be extended upon application)

A. Principles of U.S. Constitution, two semester credits or pass an exam on the U.S. Constitution

Title: Clear Preliminary Full-Time Vocational Credential (5 years)

A. Two years of successful teaching experience
B. Nine semester credits or 135 clock hours in a Commission approved program of personalized preparation
C. Completion of a unit requirement in health education, including, but not limited to emphasis on physiological and sociological effects of abuse of alcohol, narcotics, and drugs and the use of tobacco. Unit may also include information about nutrition.

IV. Renewal

The Clear Full-Time Vocational Credential is a life credential. Send in fee, but no other state requirement. Local districts may have in-service/activity requirements, which are not mandated in state requirements. Pending: 1990 20 units (CEUs) in professional vocational education every three years.

COLORADO

I. Pre-employment Requirements

A. H.S. or GED
B. California Achievement Test or Vocational Basic Skills Exam (secondary teacher) required by university for those postsecondary instructors who have completed an approved vocational Professional Teacher Education sequence.
C. Licensure as designated by state regulations
D. Course/modules in Orientation to Vocational Teaching or equal course work in Teaching Methods (no specific hours credit)
E. Four semester hours of four year college/university credit course work from the following:
   1. Foundations of vocational education
   2. Learning styles, learning characteristics, or teaching styles
   3. Curriculum models/methods
   4. Serving special needs students
   5. Adult education
   6. Lab and classroom management
F. CEU, each count up to one semester credit per year.

II. Work Experience

A. 4,000 hours in occupation in which person will be teaching with valid certification or license

B. Other options: 8,000 hours in occupation in which person will be teaching plus one school year full time specialized training. 6,000 hours in occupation in which person will be teaching and two school years full time specialized training
C. Recency: all work experience in last ten years for initial credential, 1,000 hours must be in last ten years
D. If a teacher annot fulfill work experience requirement (been out of labor market too long) he/she must take one semester occupational internship supervised through university.

III. Certification

Title: Emergency Certificate (one year, renewable once)

A. For persons who do not have employment course requirements
B. Applicant and/or locality must indicate progress toward full time standard requirements. An oral review may be requested

Title: Full Time Standard Credential (three years)

A. Six semester credits each five years
B. CEUs/workshops, non-college activities are local option, approved by SDE

CONNECTICUT

I. Pre-employment Requirements

A. H.S. or GED
B. Licensure as designated by state regulations

II. Work Experience

A. H.S. graduate: 6,000 hours (Up to 2 yrs. of appropriate schooling may be accepted toward fulfillment of this requirement.

III. Certification

Title: Interim Initial Educator Certificate (1 yr.)

A. Issued to out-of-state teachers who have one yr. of experience

Title: Initial Educator Certificate (1 yr., maybe extended for 1 yr.)

A. Six semester credits in (a)methods of teaching and (b) principles of vocational education or alternatives to formal coursework as follows:

The ability to employ recognized methods of teaching, including the latest techniques, as they relate to the subject area;
Demonstrable knowledge of classroom organization and management, including discipline;
The ability to use, design or adopt teaching materials and aids for use in the classroom; and
Demonstrate knowledge of the objectives, influences, values and contributions of vocational education as it relates to society in general and education, including the student, in particular.

Title: Provisional Education Certificate (8 yrs.)

A. Meet requirements for Initial Certificate
B. Have completed a course in special education
C. Have achieved a satisfactory score on CONNCEPT (basic skills test) and a subject matter assessment program
D. Completed beginning educator support and assessment program
E. One year of successful teaching service under interim certificate, or has completed at least three years of successful teaching in a subject area or field appropriate to the subject area or field for which the provisional educator certificate is sought, in a public, approved nonpublic school or nonpublic school approved by the appropriate governing body in another state, within ten years prior to application for such provisional educator certificate.

Title: Professional Educator Certificate (5 yrs.)
To receive a professional educator certificate for trade and industrial occupational subjects in comprehensive high schools an applicant shall present evidence of having met the general conditions in addition to meeting the following requirements:

A. Has completed at least three years of successful teaching under the provisional educator certificate, interim provisional educator certificate, or provisional teaching certificate; and

B. Has completed a planned program of vocational education, with demonstrable proficiency, which shall consist of 18 semester hours of credit at an approved institution or institutions related to the preparation of teachers of vocational education in at least six of the following areas. Alternatives to formal course work may be presented to show proficiency in the following competencies:

(1) Occupational analysis and materials preparation, including the ability to analyze the occupational field to be taught and use the results to organize skills and technical information into logical and effective teaching units and lessons to provide a sound basis for learning;
(2) Teaching vocational technical education, including the ability to utilize methods of teaching appropriate to the specific occupational area and to select, adopt and use teaching aids in the classroom;
(3) Tests and measurements in vocational-technical education;
(4) Principles of vocational education, including knowledge of the social and economic aspects and the philosophy of vocational education;
(5) Curriculum construction in vocational education, including an understanding of secondary vocational curriculum construction;
(6) Shop organization and management, and the ability to employ effective planning and supervision in the occupational laboratory; and
(7) Other areas approved for developing specifid occupational competencies for vocational education teachers; and

C. Has completed a planned program of professional education which shall consist of at least 12 semester hours of credit related to the preparation of teachers in at least four of the following areas:

(1) Developmental reading in secondary schools, including the knowledge and skill necessary to recognize problems and participate in a planned effort to assist students with reading problems;
(2) Psychology of learning, including terminology, concepts and methods in the study of learning;
(3) Developmental psychology; including knowledge of learners and the learning process as they are affected by physical, psychological, social and economic influences and positive practices for the level and subject taught;

(4) Audio visual education including the ability to use, design or adopt teaching materials and aids for use in the classroomn;
(5) Principles of secondary education, including knowledge of the history and development of secondary education, the function, objectives, problems of curriculum construction and revision, and professional responsibilities of the teachers;
(6) Psychology of the disadvantaged including psychological, social, and cultural factors that involve personality development in disadvantaged individuals; and
(7) Other areas approved for developing competencies for vocational education teachers.

IV Renewal (each 5 yrs)

Nine continuing education units or equiv.

Connecticut (Vocational-Technical fields) These are fields where technical knowledge is regarded as of greater importance than trade skills.

I. Pre-employment Requirements
A. B.S./B.A.
B. Licensure as designated by state regulations

II. Work Experience
A. 6,000 hrs.

III. Certification

Title: Provisional Educator Certificate (5 years)
A. Must have successfully completed such beginning educator support and assessment program as may have been made available by the Board, and one school year of successful service under the initial certificate, interim initial certificate, or durational shortage area permit; or

B. Must have completed at least three years of successful teaching in a subject area or field appropriate to the subject area or field for which provisional educator certificate is sought, in a public, approved nonpublic school, or nonpublic school approved by the appropriate governing body in another state, within ten years prior to application for such provisional educator certificate.

Title: Professional Educator Certificate (5 years)

A. Has completed at least three years of successful teaching under the provisional educator certificate, interim provisional educator certificate; and
B. Has completed at an approved institution or institutions 18 semester hours of credit in trade and industrial teacher education, including such courses as trade analysis, preparation of instructional materials, methods of teaching industrial subjects, principles of vocational education; and
C. Has completed at an approved institution or institutions 12 semester hours of credit in professional education, including such courses as educational psychology, educational tests and measurements, curriculum methods and materials.

IV. Renewal (each 5 yrs.)

Nine continuing education units or equiv.

DELAWARE

I. Pre-employment Requirements

A. Applicant can begin teaching at two pre-employment levels. A standard certificate will be issued, as indicated below.
Bachelor's degree from an accredited college; or high school graduate and 12 semester hours general preparation from an accredited college in the fields of communication skills, mathematics, social sciences, and science
B. General Education--Satisfactory completion of the Bachelor's degree or High School graduation and 12 semester hours general preparation as listed above.
C. Professional Education--Bachelor's degree in Vocational Education in the specific field of endorsement or a minimum of 48 semester hours as follows:
1. Required--18 semester hours
2. Educational psychology
3. School/industrial relations
4. History and philosophy of vocational education
5. Methods of teaching vocational education
6. Vocational safety (safety course must be appropriate to the occupation being taught)
7. Shop organization and management

D. Pre-Professional Skills Test (PPST)
E. NOCTI can be required by SDE for specific situations
F. Licensures designated by state regulations

II. Work Experience

A. H.S. graduate: 12,000 hours or two years beyond the learning period."Learning period" is defined as one of the following:
1. Registered apprentice program
2. State licensure program; i.e., registered nurse, LPN, cosmetology, barbering
3. Approved high school vocational program plus an associate degree in an approprate vocational area
4. Satisfactory completion of an acceptable trade compentency examination (as approved by the Department of Public Instruction)
5. A minimum of a Bachelor's degree in an appropriate vocational field (BS degree must be related to occupational area to be taught)

III. Certification

Title: Initial Standard Certificate (five years)

A. Equivalent of six semester credits, may be college and/or in-service, C.E.U.s, workshops etc.
B. No specific courses but SDE approved required

IV. Renewal

Title: Professional Status Certificate (five years)

A. Renewable every five years for life
B. Must teach three out of five years
C. Five days of in-service or equivalent (annually) reviewed by SDE

DISTRICT OF COLUMBIA

I. Pre-employment Requirements

A. H.S. or GED
B. Licensure as designated by District of Columbia regulations

II. Work Experience

A. H.S. graduate: 6,000 hours at journeyman level
*B. A.S. or equivalent: 6,000 hours at journeyman level
*C. BS/BA: 6,000 hours at journeyman level
Hours in bonafide occupational programs count toward the learning period level.
University of D.C. allows credit for NOCTI in BS degree program, accepted by SDE

III. Certification

Title: Temporary Trade & Industrial License (five years, must be renewed annually)

A. Thirty semester credits selected from:
1. Shop organization and management
2. Occupational analysis
3. Course construction
4. Educational psychology
5. Teaching of reading
6. Foundations of vocational education
7. Methods of teaching vocational subjects
8. The exceptional child
9. School/shop safety in vocational education
B. Remaining courses may be electives, vocational courses or credits earned through competency examinations
C. Student teaching at the secondary level or one year of satisfactory teaching experience at the secondary level

IV. Renewal

Title: Permanent Occupational Teaching License (renewable each five years for life)

A. Six college semester credits or three semester college credits and equivalent of three semester credits in in-service, updating or non-credit locally sponsored activities

FLORIDA

I. Pre-employment Requirements

A. H.S. or GED
B. NOCTI or equivalent
C. Florida Teacher Certification Exam (math, English or communications content)
D. Licensure as designated by state regulations

II. Work Experience

A. Written statement of request from apprenticeship advisory committee
B. H.S. graduate: 12,000 hours, two years at journeyman level
C. Thirty semester hours college credits: 4,000 hours (less than 30 credits prorated at seven and a half credits per year of experience
D. Completion of apprenticeship plus 4,000 hours journeyman level
E. Occupational license plus 4,000 hours at journeyman level
F. Thirty-six semester credits or A.S. degree at a technical institute plus 4,000 hours at journeyman level (prorated at nine credit hours per year of experience)
G. BS plus 4,000 hours at journeyman level
H. Recency: six weeks in last two years

III. Certification

Title: Provisional Certificate (one year, renewable twice)

A. Nine semester college credits in areas as follows:
   1. Methods of teaching (three credits)
   2. History and principles (three credits)
   3. Laboratory management (three credits)
   4. Internship under master teacher for 15 weeks (no college credit)

Title: Regular Certificate (five years, may be renewed indefinetly)

A. Six semester credits
B. Three must be in content area, three must be in methodology or curriculum (can be college or non-college credit)

IV. Renewal

Title: Advanced Vocational Certificate

A. Completion of regular certificate requirements
B. Minimum of 12 credits and maximum of 18 credits in professional vocational education course
C. Minimum of 12 credits and maximum of 18 credits in general education and non-vocational courses
D. B.S. degree

GEORGIA

I. Pre-employment Requirements

A. H.S. or GED
B. Admission to a university approved by SDE as a regular degree pursuing student
C. Licensure designated by state regulations

II. Work Experience

A. H.S. graduate: 4,000 hours
B. Two year postsecondary: 4,000 hours
C. BS/BA: 2,000 hours
D. Recency: one year in last seven

III. Certification

Title: BT-2 Provisional, (one year renewable twice)

A. H.S. or GED
B. Forty hours of course work consisting of the following courses:
   1. Foundations of vocational education (ten quarter hours)
   2. Curriculum and methods (ten quarter hours)
   3. Special education (five quarter hours)
   4. Student teaching/internship (15 quarter hours)

*The 15 quarter hour student teaching/internship is a year-long internship under the joint sponsorship of an approved college and the local school system for which a minimum of fifteen quarter hours of college credit is earned

C. All course work, with the exception of the special education course, must be taken for college credit. The special education course and student teaching/internship may be completed through a state approved local staff development program.

Title: NT-2 (three years)
Before being eligible for PBT-2, complete the following:

A. Two year degree or equivalent
B. Have completed all requirements for BT-2
C. Pass Teacher Performance Assessment Instrument (TPAI)
D. Have passed the performance portion of the Teacher Competency
E. Complete ten quarter credits of approved courses

Title: PBT-2 (five years)

Complete ten quarter credits of approved courses

IV. Renewal

Same as PBT-2 every five years

HAWAII

I. Pre-employment Requirements

A. BS/BA degree in Trade & Industrial Education (include student teaching)
B. National Teachers Examination (core battery and appropriate specialty area)
C. Licensure as designated by state regulations

II. Work Experience

A. 3,600 hours

III. Certification

Title: Initial Basic Teaching Certificate

A. Holder may stay at this level but pay level stays the same
B. Teachers may move up to next certificate by completing a postbaccalaureate program which culminates in a M.S. or professional diploma in teacher education

Title: Initial Professional Teacher's Specialist Certificate

A. Probationary period of two years of satisfactory teaching
B. Completion of postbaccalaureate program which culminates in a M.S. or professional diploma in teacher education. These must be college transfer (above 100 level) courses.

IV. Renewal

There are no renewal requirements unless the applicant has not taught continuously and wishes to reinstate the certificate.

IDAHO

I. Pre-employment Requirements

A. H.S. or GED
B. NOCTI (used as one option only)
C. Pre-service 60 clock hours survival skills course sponsored by SDE

II. Work Experience

A. H.S. graduate: 16,000 hours
B. Postsecondary occupational training program, counts on a month-for-month basis
C. BS/BA: 6,000 hours
D. Verification that qualified applicants are not available: 6,000 hours and verification of occupational competency by exam (local)
E. Recency: three months work experience in the last five years

III. Certification

Title: Interim Vocational Specialist Certificate (one year) may be renewed twice if progress is being made

A. Sixty clock hours survival skills course (if not taken as pre-service)
B. Thirty clock hours of work as formalized in a personalized in-service training plan. Plan filed by teacher educator with SDE

Title: Standard Vocational Specialist (three years, may be renewed for one more year)

A. Twelve semester credits (either college or non-college) in the following areas:
   1. Principals and foundations of vocational education
   2. Occupational and job analysis
   3. Curriculum development
   4. Strategies and techniques of instruction

IV. Renewal

Title: Advanced Vocational Specialist (five years, renewable)

A. This certificate is renewed each five years if applicants have completed two approved courses (six semester credits) from the following areas:
   1. Tests and measurements
   2. Advanced methods of instruction
   3. Vocational guidance

4. Audio-visual aids
5. Principles/foundations of vocational education
6. Co-ordination of cooperative programs
7. Shop or laboratory organizations and management
8. Techniques of supervising people
9. Seminars/workshops in vocational education
10. Other courses applicable to the teaching assignment (approval of SDE)

B. Secure an additional 160 clock hours of employment in the specific field or 30 cumulative hours of attendance at technical conference institutes or workshops as approved by SDE

ILLINOIS

I. Pre-employment Requirements
   A. H.S. or GED
   B. Standardized Test of Basic Skills

II. Work Experience
   A. H.S. graduate: 8,000 hours
   B. Minimum of 60 semester hours of college credit: 2,000 hours
   C. BS/BA: 2,000 hours

III. Certification

Title: Temporary Vocational Certificate (one year) Certificate may be renewed annually if evidence is shown that no person qualified for a Provisional Vocational or Regular certificate is available

A. Three semester hours of college credit annually
B. Fulfill work experience requirements of 8,000 hours if incomplete at time of employment

Title: Provisional Certificate (life)

A. Sixty semester hours of college credit (in any field)
B. Fulfill work experience requirements of 2000 hours if incomplete at time of employment

IV. Renewal

No renewal requirements beyond the Provisional Vocational Certificate

INDIANA

I. Pre-employment Requirements

A. H.S. or GED (desirable but not required)
B. NOCTI required (pending 1989) may also be taken during first year
C. Test of Basic Adult Education (Level D, reading, language, and math)

II. Work Experience

A. H.S.: 6,000 hours
B. NOCTI or equivalent: 4,000 hours
C. Postsecondary: two year degree, 4,000 hours
D. BS/BA: 4,000 hours
E. Apprenticeship plus 4,000 hours

III. Certification

Title: Occupational Specialist I (one year, can be renewed for two years)

A. Teacher in-service (45 clock hours within 60 days of employment)
B. Teacher assistantship, one teaching year, local and university coordination
C. Pass test of Basic Adult Education (if not done as pre-employment)
D. Pass NOCTI if hired too late for pre-employment
E. Develop a professional development plan. This is a joint plan including local, university and SDE, which includes college work, seminars, workshops and other college/non-college activities quantity of time is not specified

Title: Occupational Specialist II (four years)

A. Complete three years of teaching experience
B. Submit plan for BS degree
C. Complete professional development plan

IV. Renewal (every four years)

A. Six semester credits in professional vocational courses

or

B. Ninety clock hours of SDE approved in-service
C. Three semester credits of course work plus 45 clock hours of in-service

Title: Level III Certificate (For AS or BS degree graduates who are not Trade & Industrial) (five years, renewable until Trade & Industrial BS degree is reached)

A. AS or BS plus licensure (if needed)
B. Standard vocational license
C. Fifteen semester credits toward Trade & Industrial degree each five years
D. Complete standard BS degree licensing regulations. Total of 60 semester hours required: NOCTI included for 28 semester hours

IOWA

I. Pre-employment Requirements
   A. H.S. or GED (desirable but not required)
   B. NOCTI, as pre-employment or first year
   C. Licensure as designated by state regulations

II. Work Experience

   A. H.S. graduate: 6,000 hours
   B. AS or two years postsecondary occupation degree 4,000 hours
   C. BS/BA: 6,000 hours
   D. Recent relevant experience decided by SDE

III. Certification

Title: Provisional Occupational Certificate (five years)

A. Twelve semester credits or equivalent as follows:
   1. History and philosophy of vocational and career education, two semester credits
   2. Methods and techniques of teaching, two semester credits
   3. Measurement and evaluation of programs and student (two semester credits)
   4. Course and curriculum development (two semester credits)
   *5. New teachers workshop, 45 clock hours (first year)
   *6. Human relations workshop, 45 clock hours may be college credit or in-service credit
   7. Teacher must progress by taking at least one course a year

Title: Occupational Secondary Certificate (five years)

A. Meet all requirements for the Provisional Occupational Secondary Certificate and have completed a human relations component

IV. Renewal of Occupational Secondary Certificate (renewable each five years)

A. Eight renewal units are required
B. One renewal unit may be earned for each 160 days of teaching experience during the term of the certificate. A maximum of two renewal units may be earned in this manner.
C. One renewal unit may be earned for each semester hour of credit which advances one toward the completion of a degree program
D. One renewal unit may be earned for each semester hour of credit completed which may not lead to a degree but which adds greater technical depth/competence to the endorsement(s) held
E. Renewal units may be earned upon the completion of staff development programs approved through guidelines established by the department of education or approved technical update program approved by the department of education. A maximum of five units may be earned from this section
F. Completion of an approved human relations component, if not already met

KANSAS

I. Pre-employment Requirements
A. H.S. or GED
B. State VICA exam used on demand
C. Pre-service workshop (counts toward first One Year Provisional Certificate)

II. Work Experience

A. H.S. graduate: 4,000 hours
*B. Postsecondary program, one or two years length, 4,000 hours
*C. BS/BA: 4,000 hours
D. One year of work experience must be continuous, full time

* Commensurate length of time subtracted if bonafide occupational training

III. Certification

Title: First One Year Provisional (one year, may be renewed twice)

A. Thirty clock hour pre-service workshop

First Renewal of the first One Year Endorsement
A. One year of successful teaching secondary or post-secondary experience
B. Thirty clock hours workshop; approved by SDE
C. Eight semester hours college credit in vocational education

Second Renewal of the first one year endorsement
A. Four additional semester credits of professional vocational education credit
B. One 30 clock hour workshop

*NOTE: The second renewal of the first one year endorsement may be renewed as a three year endorsement if the applicant completes:
1. Eighteen semester credits of vocational education credit, including SDE required workshops
2. One year of successful secondary or postsecondary teaching experience

Title: Three Year Endorsement (three years)

A. Three semester hours of vocational education credit
B. Attendance at two annual vocational workshops approved by state board

Title: Five Year Endorsement (BS degree)

*NOTE: The one year endorsement based upon a degree in education shall be renewed as a three year endorsement if the applicant has:
1. Eighteen semester hours of vocational credit, which shall include the required approved vocational workshops, and
2. One year of accredited experience in an approved secondary of post-secondary vocational program

A. The three year endorsement based upon a degree in education shall be renewed as a five year endorsement, if the applicant has:
1. Three additional semester hours of vocational education credit, and
2. Attended two annual vocational workshops approved by the state board

IV. Renewal

A. Subsequent renewals of the five year endorsement based upon a degree in education, shall require eight semester hours of additional credit to include:
   1. Three semester hours of vocational credit, and
   2. Attendance at three vocational workshops approved by the state board

KENTUCKY

I. Pre-employment Requirements

A. H.S. or GED
B. Licensure designated state regulations

II. Work Experience

A. H.S. graduate: 8,000 hours
B. One year of accredited work experience may be satisfied by completion of an accredited vocational program in the area to be taught
C. Recency requirement: two years of work experience must be within last five years

III. Certification

Title: <u>One Year Vocational Certificate</u>

A. Test of general knowledge, communication skills and professional education concepts
B. Test of knowledge in specific teaching field
C. Beginning teachers internship (140 days)
D. Three semester credits of professional vocational education

First renewal of One Year Vocational Certificate

A. Successful completion of a one year internship
B. Three semester credits in vocational education laboratory/classroom management

Subsequent one year renewal (up to ten times)

A. Six semester credits for each renewal selected from a 64 semester hours planned program for Trade & Industrial teachers
B. Sixty clock hours of approved upgrading experiences on the fifth and tenth renewals. These may include:
   1. Staff exchange

2. Industry experience
3. Clinical experience
4. Technical upgrading
5. Supervised work experience
6. College specialization credit (three semester hours)
7. C.E.U. (six credits)

C. The one year certificate may be renewed one time as a consequence of extenuating circumstances

Title: Five Year Teaching Certificate

A. The completion of a planned program consisting of a minimum of 64 semester hours of credit distributed as follows:
   1. A general education component consisting of semester hours of credit selected from the general education component of teacher preparation. A baccalaureate degree in any area would satisfy the general education component
   2. A specialization component consisting of 24 semester hours of credit selected from the specialization component of the curriculum standards for the provisional high school certificate with an area of concentration in health occupations or industrial education-preparation level
   3. A professional education component consisting of 20 semester hours of credit in professional education to include at least 12 semester hours selected from the professional education component of the curriculum standards for the provisional high school certificate with an area of concentration in industrial education--preparation level. The professional education component must include attention to the management of student organizations. Partial credit for this component may be granted for education courses previously taken on a baccalaureate or graduate degree

B. The completion of 60 clock hours of approved and appropriate upgrading experiences, to be selected from the areas described in the previous section of this regulation.

C. The five year certificate may be issued initially for a one year period to beginning teachers who meet the provisions of the one year certificate. Upon successful completion of the one year internship, the certificate shall be extended for the remainder of the five year period.

D. Renewal of the Five Year Certificate. The five year certificate shall be renewed for subsequent five periods upon completion of 60 hours of approved upgrading experiences described in the one year certificate and upon completion of any combination of three years of teaching or work experience in the occupational specialty. Three semester hours of credit taken from the provisional certificate program may be substituted for any one year of renewal experience which may be lacking.

Title: Specialist Certificate

A. The Certificate for Vocational Education Specialist is intended to certify individuals who have unique knowledge, experience, or special preparation that would qualify the person for an emerging or specialty occupational program. These requests must represent areas of occupational employment that by their nature do not provide for candidates to acquire four years of occupational experience. These requests must be approved by the Department of Education, and under no circumstances will requests be approved for programs included in the Kentucky Program of Studies.

B. The Certificate for a Vocational Education Specialist, valid for teaching the specific subject stated on the face of the certificate, shall be issued for a duration period not to exceed one year and may not be renewed. Persons teaching under the specialist certificate may apply for certification under previously described certificates, provided they successfully complete an applicable occupational competency exam in both cognitive and psychomotor areas. This exam is in lieu of the work experience required and must be administered by the Department of Education.

LOUISIANA

I. Pre-employment Requirements

A. H.S. or GED
B. NOCTI or equivalent (pending, July 1989)
C. Localities have authority to give basic skills test
D. Licensure as designated by state regulations

II. Work Experience

A. H.S. graduate: 8,000 hours.
B. Vocational technical high school or postsecondary graduate: two years credit or 4,000 hours at journeyman level
C. BS/BA: 4,000 hours (full-time)
D. Recency requirement: Secondary: one full year in last five, PostSecondary: one full year in last

III. Certification

Title: <u>One Year Vocational Technical Certificate</u> (renewable four times)

A. Survival skills workshop (24 hours, pending)
B. Three semester hours in professional vocational education earned annually until 15 credits are earned. Select from the following:
   1. Philosophy
   2. Curriculum
   3. Methods
   4. Preparation of course materials
   5. Shop management
   6. Safety
   7. History of vocational Education
   8. Testing
   9. Visual aids
C. Instructors with education (BS) degree, earn six semester credits
D. Instructors with BS degree (any area) earn nine semester credits

Title: <u>Permanent Vocational Technical Certificate</u>

A. Completion of all One Year Vocational Technical Certificate requirements

IV. Renewal

There is no renewal required.

MAINE

I. Pre-employment Requirements

A. H.S. or GED
B. Trying to implement BS (pending)
C. Licensure as designated by state regulations

II. Work Experience

A. H.S. graduate: three years beyond learning period
B. BS/BA in endorsement field: 18 months
C. Recency, (non-degree) one year must be within last five years
D. Recency, (BS/BA) pending

III. Certification

Title: Provisional Certificate (two years renewable, first year is conditional)

A. Pre-Professional Skill Test (PPST) or National Teachers Exam (NTE) during first year of employment
B. New teacher is evaluated by a local support team
C. Team develops a Teacher Action Plan
D. After completion (team determines when plan is completed), teacher is recommended for Provisional Certificate

Title: Professional Certificate (five years, renewable)

A. Teacher develops a Teacher Action Plan
B. Can be college courses, in service, CEU or other professional or updating activities
C. Teacher Action Plan equivalent to six semester hours of college credit (15 clock hours = one semester hour)

IV. Renewal

Same as stated above

MARYLAND

I. Pre-employment

A. H.S. or GED
B. NOCTI used only for applicants who wish to appeal the trade experience decision made by SDE
C. Licensure as designated by state regulations

II. Work Experience

A. H.S. graduate: five years
B. Post-secondary two year program: three years

C. BS/BA: two years
D. Recency: no written regulations. Review is made by SDE

III. Certification

Title: Provisional Certificate (one year, renewable up to three years)

A. Twenty-one semester credits of professional vocational and general education courses as follows: (fifteen semester credits required):
   1. Methods
   2. Lab management
   3. Curriculum
   4. Evaluation
   5. Special needs
B. Six semester hours elective. Select from:
   1. Human growth and development
   2. Educational psychology
   3. Professional training & industry

Title: Standard Certificate (ten years)

A. National Teachers Exam (NTE) at time of application
B. Thirty-four semester hours as follows:
   1. 12-15 credits in industrial education
   2. 0-6 credits in supervised work experience
   3. 0-6 credits in trade advanced
   4. 3-9 credits in human relations
   5. 0-6 credits in communications
   6. 0-7 credits in science and mathematics
   7. 0-6 credits in business and economy
   8. 3-9 credits in special education

Title: Advanced Certificate (Life)

A. No requirements, however salary increases encourage degree completion

MASSACHUSETTS

I. Pre-employment Requirements
   A. H.S. or GED
   B. Performance and skill test developed by the state (waiver for a year in emergency only)
   C. Licensure as designated by state regulation

II. Work Experience

A. H.S. graduate: 12,000 hours
B. Two year postsecondary: 8,000 hours
C. BS/BA: 6,000 hours

D. BS/BA plus Masters: 4,000 hours
E. Recency requirement: all experience within the last ten years

III. Certification

Title: Provisional Certificate (three years)

A. Eighteen semester credits as follows:
1. Fundamentals of vocational education, three credits
2. Management of vocational education, three credits
3. Curriculum development in occupational vocational education, three credits
4. Teaching methods in vocational education, six credits
5. Supervised teaching, three credits

IV. Renewal (Every two years)

Title: Full Certificate

Sixty clock hours professional improvement (can be gained at state conferences) or three semester college credits

MICHIGAN

I. Pre-employment Requirements (select one of the following)

A. BA/BS in teacher education and major or minor in an occupational area for State Secondary Provisional Certificate
B. BA/BS within major or minor in occupational area or equivalent graduate credit for Temporary Vocational Authorization
C. Appropriate license or credential (non-bachelor degree) for annual authorization

II. Work Experience

A. Non-BA degree: two years of recent and relevant occupational experience
B. Bachelor's degree in teacher education: two years of recent and relevant occupational experience or completion of a planned equivalent program at a teacher training institution
C. Bachelor's degree in occupational area: two years of recent and relevant occupational experience or a planned program of directed supervised occupational experience

D. Recency: work experience within the last five years

III. Certification

Title: Annual Authorization (For non-bachelor degreed trade & industry instructors)

A. Can be renewed upon the recommendation of the employing school district

Title: Temporary Vocational Authorization (six years) For BS/BA with major/minor in occupational area

A. Certificate requirements to upgrade to: Full Vocational Authorization
   1. Three years successful teaching
   2. Ten semester hours of professional vocational education approved by a sponsoring Michigan teacher training institution

Title: State Secondary Provisional Certification with a Vocational Endorsement (three years) For BS/BA in Teacher Education with occupational area major or minor

A. First level- ten semester hours of a planned program or completion of a Master's or higher degree
B. Second level- (three years) Eight semester hours of a planned program toward a State Secondary Continuing Certificate With a Vocational Endorsement
C. At this time (after six years) Provisional Certificate will expire

Title: State Secondary Continuing Certificate with a Vocational Endorsement (three years)

A. Three years of successful teaching (can be part time or substitute teacher)
B. Eighteen semester hours since the issuance of the Secondary Provisional Certificate With Vocational Endorsement, ten semester hours of which must be vocational education credit (either occupational or professional vocational education subject matter)
C. NOTE: A person with earned Master's or higher is not required to take 18 semester hours

IV. Renewal

No requirements

MINNESOTA

I. Pre-employment Requirements

A. H.S. or GED (desirable but not required)
B. Pre-Professional Skill Test

II. Work Experience

A. H.S. graduate: 8,000 hours
B. Two year postsecondary: 4,000 hours
C. BS/BA: 2,000 hours
D. Recency: 500 hours in last five years

III. Certification

Title: Initial Two Year License (two years, renewable upon request)

A. Introduction to vocational education (three semester credits)
B. Nine week teaching internship during first 18 weeks of teaching assignment. Student teaching or previous teaching may be substituted

First One Year Renewal

A. Human relations (three semester credits) plus an additional three credits chosen from Vocational Teacher Education Core

Subsequent One Year Renewals

A. Minimum of additional three semester credits per year chosen from the Vocational Teacher Education Core courses
   1. Introduction to Vocational Teacher Education Core
   2. Nine week teaching internship (completed first year)
   3. Vocational methods
   4. Vocational course construction
   5. Vocational tests and measurements
   6. Philosophy of vocational education

Title: Five Year License

A. Completion of the Vocational Education Core
B. An instructor with a non-vocational degree in education can meet the five year teacher education requirements by completing the

Vocational Education Core, except for the Introduction to Teaching course and nine week teaching internship

C. Meet additional licensure categories for B.S. degree applicants

D. An applicant requesting an additional licensure category or level of student who has all of the following qualifications may substitute those qualifications for the Introduction to Vocational Teaching course and the Vocational Methods course.
   1. Prior completion of the original 192 clock hour vocational teacher education sequence and
   2. A current five-year vocational license, and
   3. One year of previous paid teaching experience on a vocational license

E. An applicant for licensure who has one of the following qualifications may substitute such qualifications for the Introduction to Vocational Teaching course:
   1. Prior completion of the original 192 clock hour vocational teacher education sequence, or
   2. Prior completion of at least two of the core courses, or
   3. Prior completion of at least six quarter credits of vocational education

Secondary Provisional Licensing Requirements

A. This section allows education degreed instructors and instructor/coordinators at the secondary level to become provisionally licensed for a specified period of time in order to accept vocational teaching responsibilities when no fully licensed individual is available. This opportunity is designed to allow a transitional period of time during which it is assumed full licensing will be accomplished. The provisional license is non-renewable and expires a maximum of two years from the July nearer issuance.

B. Instructor: When no fully licensed instructor is available, one-third of the work experience may be completed on a two-year contract

Title: <u>Standard Certificate</u> (five years)

A. BS/BA degree

B. Ten clock hours of updating courses, workshops
   1. Work experience
   2. Credit courses
   3. Conferences, seminars

4. Continued education workshop
5. Curriculum design activities
6. Occupational advisory committee responsibilities
7. Technical research
8. Service on state evaluation teams

IV. Renewal

No requirements

MISSISSIPPI

I. Pre-employment Requirements
   A. H.S. or GED
   B. California Achievement Test (CAT)
   C. NOCTI or equivalent
   D. Licensure as designated by state regulations

II. Work Experience

   A. H.S.: 4,000 hours
   B. BS/BA: 4,000 hours

III. Certification

   Title: Provisional Certificate (three years, renewable one more year)
   A. Pre-employment workshop, 30 clock hours
   B. Pass Mississippi Teacher Assessment Instrument (MTAI) at beginning of school year
   C. Twenty-four semester hours of college credit as follows:
      1. Philosophy and principles of vocational education
      2. Planning instructional programs
      3. Developing/utilizing instructional materials
      4. Evaluating student performance
      5. Managing the learning environment
      6. Communication skills (required)
      7. Mathematics (required)
   D. Mastery of 16 designated teacher competencies
   E. Successful participation in a staff development program
   F. Recommendation by school district for Standard Equivalency Certification

Title: Standard Certificate, Class A (one year, renewable)

A. Complete district staff development program annually

IV. Renewal

Standard Certificate requirement

MISSOURI

I. Pre-employment Requirements

A. H.S. or GED
B. Licensure designated by state regulations

II Work Experience

A H.S. graduate: 6,000 hours (consecutive)
B. Two year postsecondary occupational program: 4,000 hours
C. BS/BA: 4,000 hours
D. Recency regulation: all work experience in last ten years

III. Certification

Title: Two Year Temporary Certificate (may be renewed twice)

A. Workshop for new teachers (required, 30 clock hours)
B. Twenty semester credits selected as follows:
   1. Eight credits from: curriculum (required), methods (required), analysis, guidance, evaluation
   2. Twelve credits from: speech, English, mathematics, economics

Title: Five Year Temporary Certificate (Five years, renewable)

A. Attendance at three out of five state conferences
B. Three semester hours of professional Trade & Industry course work
C. Attendance at a two week industry sponsored workshop

and

D. Occupational experience of 320 clock hours (approved)

or

E. Occupational survey (data gathering in support of a program)

IV. Renewal
Renewal each five years for life, follow above requirements

MONTANA

I. Pre-employment Requirements

A. Licensure as designated by state regulations
B. Class Four A: BA/BS
C. Class Four B: H.S. or GED
D. Class Four C (temporary): H.S. or GED

II. Work Experience

A. Class Four A: none
B. Class Four B and Four C:
1. 10,000 hours (five years)
2. 6,000 hours for graduates of two years vocational technical program
3. Each period of work experience must be ten weeks or more of continuous employment with an employer
4. Experience and teaching experience gained while in the military will be evaluated on an individual basis
5. Less hours required with NOCTI
6. Work experience requirements variances may be approved by the Division of Certification in the office of Public Instruction

III. Certification

Title: Class Four C Provisional (temporary)
(five years, non-renewable)

A. Issuance of the Class Four C (temporary) is dependent upon the applicant's professional intent leading to a Class Four A or Four B Certificate

Title: Class Four B (five years)

A. Ten semester hours college credit in general background courses in at least three of the following fields:
   1. English
   2. Social Studies
   3. Humanities
   4. Science
   5. Math

B. Completion of the following courses or their equivalent:
   1. Principles and/or philosophy of vocational-technical education
   2. Curriculum construction in vocational-a technical education or job analysis
   3. Instructional materials and devices in vocational-technical education
   4. Teaching Methods - vocational-technical subjects
   5. Vocational technical organization end management
   6. Vocational guidance

C. Ten semester hours or a minimum of 150 clock hours of student teaching. Two years teaching experience on a Class Four C (temporary) certificate may be substituted for the student teaching requirement

Title: Class Four A Certificate (five years)

A. Class Four A is renewable on completion of one year of successful teaching experience in the area of endorsements plus:
   1. Six quarter credits in professional course work

   or

   2. The equivalent in industrial experience

B. Upon obtainment of the master's degree, the certificate is renewable on completion of one year of successful teaching experience

IV. Renewal

Title: Class Four B is renewable on completion of one year of successful teaching experience in the area of Endorsement during the five year period plus: Six quarter hours in professional course work or in technical study.

NEBRASKA

I. Pre-employment Requirements

A. H.S. or GED plus 40 semester hours (40 semester hours may include college credit for NOCTI)
B. Licensure as designated by state regulation
C. Postsecondary institutions may have their own preservice program for new teachers

II. Work Experience

A. H.S. graduate plus 40 semester hours, 2,000 clock hours of paid experience
B. Option I - If more than five years has elapsed since last work experience, a maximum of 1,000 clock hours can be accepted and a minimum of 360 clock hours of supervised employment required
C. Option II - A minimum of 1,360 clock hours of full time employment or the equivalent in accumulated part-time employment
   1. At least 360 clock hours in an area closely related to the teaching field
   2. The 360 clock hours is coordinated by a qualified teacher of education
D. Postsecondary. Minimum of 4,000 clock hours to desirable level of 10,000 clock hours

III. Certification

Title: Secondary Trade and Industrial Education Certificate (field endorsement) (three years)

A. Forty semester credits in industry related course work
B. Candidates may earn all or part of the 40 hours through instructional course work, NOCTI examinations, or transfer credits accepted by the recommending institution
C. A minimum of 12 semester credits is required in the area of specialization, e.g., carpentry, auto mechanics, etc.
D. A minimum of nine semester credits is required in professional vocational education courses. No more than three semester credits of student teaching may be applied to the nine credit requirement, if done in an approved vocational school. For post-secondary this is now optional in as much as this regulation was mandatory for funding prior to the Carl Perkins Act.

IV. Renewal

There are no renewal requirements. Most teachers continue toward B.S. degree because most Nebraska Trade & Industry programs are post-secondary. Post-secondary institutions each have their own updating requirements.

NEVADA

I. Pre-employment Requirements
   A. H.S. or GED
   B. Licensure designated by state regulations
   C. Pre-professional Skill Test (Passing score is one standard deviation below the mean)
   D. Professional or standard vocational endorsement applicants must have taken Nevada Law, Nevada Constitution, U.S. Constitution
   E. Applicants for a Professional Endorsement must have taken multi-cultural education, exceptional children and counseling and guidance

II. Work Experience

   A. Limited Endorsement: H.S. graduate, 6,000 hours Up to one year of this employment requirement may be met by having been employed one year as a teacher of the vocation
   B. Standard Endorsement: H.S. graduate: Apprenticeship program or equivalent of eight years (16,000 hours) of employment (after age 16), three of the eight years must be in a position above apprentice level
   C. Professional Endorsement: 4,000 hours above the apprenticeship level or equivalent

III. Certification

Title: Limited Vocational Endorsement

   A. H.S. graduate must meet licensing and work experience requirements; 18 years of age
   B. No academic requirements

Title: Standard Endorsement

   A. H.S. graduate: meet licensing and work experience requirements
   B. Six semester credits of professional education

Title: Professional Endorsement (five years)

A. Meet licensing and work experience requirements
B. BS degree (any area)
C. Thirty semester credits related to Trade & Industry education
D. Twelve semester credits related to vocational education instruction
E. Completed student teaching or one full year of teaching experience

IV. Renewal

A. Professional Endorsement: six credits earned since date of certificate issuance. (since September, 1974)
B. Limited Vocational Endorsement: three semesters or equivalent in-service training in Methods of Teaching and a subject directly related to the occupation

Renewal Requirement for Required Courses

A. For personel holding a professional or standard vocational endorsement and who have not completed all the required courses in:
   1. Multi-cultural education
   2. Exceptional children
   3. Counseling and guidance with emphasis on consultation with parents
   4. Teaching of reading, and
   5. Economic education

   The course renewal requirement is as follows:

   1. For persons with a three credit renewal requirement: one course must be completed each renewal period until all required courses are completed.
   2. For persons with a six credit renewal requirement:
      a. Three credits of required courses if lacking in three or more course areas.
      b. Two credits if lacking in two of the course areas
      c. One credit if lacking in a course area, until all courses are completed.

Professional educators having limited student contact (e.g. vocational education administrators who do not supervise personnel having daily student contact) are exempt from these required courses upon application to the Nevada Department of Education.

B. There is no required course renewal requirement for persons holding a certificate with a limited vocational endorsement.

Title: Provisional Certification

A. The Nevada Superintendent of Public Instruction may issue a provisional certificate if an applicant:
   1. Has a deficiency of not more than six hours of credit in meeting the requirements for a vocational endorsement
   2. Has not passed courses or Nevada Department of Education examinations in the areas of Nevada school law, Nevada school law, Nevada constitution, and United States constitution
   3. Has not passed courses in the areas of multi-cultural education, exceptional children, and counseling and guidance with an emphasis on consultation with parents.
   4. Does not have student teaching related to the occupational group or program for which he or she is applying for endorsement, or has not taught in the occupational group or program for two years.

B. In order for a provisional certificate to be issued for the lack of student teaching experience, a request for this certificate must be made by a local school district superintendent

C. The provisions of Nevada school law, Nevada Constitution, and United States Constitution may be removed by passing Nevada Department of Education examinations in each of these areas or through the completion of university or college courses. All other provisions involving deficiencies related to courses and hours of credit must be removed through the completion of university, college or in-service courses approved by the Department.

D. Credits earned from courses utilized to remove provisions cannot be counted towards credits required for renewal of a certificate.

E. All types of provisions must be removed one year from the date of certification.

NEW HAMPSHIRE

I. Pre-employment Requirements

A. Licensure designated by state regulations

B. Basic skill competency is being addressed by a proposed program at Keene State University

C. A two weeks (local option) workshop (not state mandated)
D. The type of teaching certificate with which one begins depends on educational experience:
   1. Has a BS in Trade & Industry from a New Hampshire University
   2. Has a BS in Trade & Industry from a university in another state
   3. Teacher challenge. The teacher involved challenges that he/she possesses the skill required of the four year graduate; must appear before an oral review board
   4. Non-degree in critical areas. An individual development program is planned at Keene State University. (pending)

II. Work Experience

A. H.S. graduate: 8,000 hours
B. Postsecondary two year occupation degree: 4,000 hours
C. BS/BA: 4,000 hours
D. Recency of work experience is a local decision

III. Certification

Title: Beginning Teacher Credential (three years)

A. Three year plan designed by the locality with University assistance as submitted to SDE. Can be college or non-college credit in the areas of conferences, workshops, self study or regular courses

Title: Experienced Teaching Certificate (Life)

A. Fifty clock hours total:
   1. Thirty clock hours in the content area
   2. Twenty clock hours in pedagogical skills
B. The local superintendent submits and monitors. This plan does not need to be approved by SDE

IV. Renewal

There is no renewal requirement

NEW JERSEY

I. Pre-employment Requirements

A. H.S. or GED
B. Licensure as designated by state regulation

II. Work Experience

A. H.S. graduate: 12,000 hours
B. Postsecondary approved programs, two year degree in speciality: 10,000 hours
C. Full time only
D. Must be in a trade requiring a minimum of learning period of two years on-the-job training (listed by Federal Committee on Apprenticeship Training)

III. Certification

Title: Emergency Certificate (renewed annually, total number of renewals is determined by the local school district)

A. Submit a university program of studies including the following:
   1. General Studies. Select 18 semester hours from the following areas: English, fine and practical arts, foreign language, mathematics, science,social studies.
   2. Professional Studies. Select 15 semester hours in professional education from the following areas (*required): *methods of teaching, *educational psychology, *human and intercultural relations, curriculum, foundation of vocational education, student personnel services, field experiences, electives in professional education (up to five credits).

B. Student teaching be one of the following:
   1. Three years of successful teaching experience in a recognized school
   2. Regular valid out-of-state teaching certificate plus one year of teaching experience
   3. College supervised student teaching under a substandard certificate approved by New Jersey State Department of Education

C. Reading
   1. Six credits or two courses

IV. Renewal

Title: Permanent Certificate (life)

A. There are no renewal requirements for non-degree teachers

NEW MEXICO

I. Pre-employment Requirements

A. H.S. or GED
B. Teacher Core Battery of NTE
C. Licensure as designated by state regulations

II. Work Experience

A. H.S. graduate: 10,000 hours
B. Postsecondary one year certificate: 4,000 hours
C. Associate two year degree: 4,000 hours
D. BS/BA: 4,000 hours

III. Certification

Title: Level I Provisional Certificate (one-three years, renewable)

A. Satisfactory demonstration of competencies as approved by the State Board of Education for Vocational Technical teachers. This requirement may be met by:
   1. Fifteen semester credits of professional education
   2. Supervised classroom internship/student teaching experience done either through an accredited college, local, or private school district

or

C. Develop and implement a Professional Development Plan in lieu of the 15 semester credits of professional education and supervised internship/student teaching. Must be approved by the locality and the State Board of Education
D. Pass NTE (Part B, within three years) (For those who have completed B.S. degree requirements outside of T & I)

Title: Secondary Vocational Technical Education Certificate (annual)

IV. Renewal

Professional Development Plan same as above (pending)

NEW YORK

I. Pre-employment Requirements

A. H.S. or GED plus 30 semester hours, Provisional Certificate I. See certification section for higher level certificates for beginning teachers.
B. Licensure as designated by state regulations

II. Work Experience

A. H.S. graduate plus 30 semester hours: 8,000 hours (4,000 hours must be consecutive)
B. A.S. graduate plus 18 semester hours: 4,000 hours (consecutive)
C. BS graduate plus 36 semester hours: 2,000 hours (consecutive)

II. Certification

Applicant may start at different level depending on qualifications

Title: Provisional Certification I (five years)

A. H.S. graduate plus 30 semester credits in approved courses. Eighteen credits must be professional education
B. College supervised student teaching
C. 8,000 consecutive clock hours of work experience

Title: Permanent Certification I

A. Two years of teaching experience in certification area
B. Thirty semester credits of upper level college study in the certification area

Title: Provisional Certificate II (five years)

A. A.S. two year degree in certification area 18 credits, must be professional education
B. College supervised student teaching
C. 4,000 consecutive clock hours of work experience

Title: Permanent Certificate II

A. Two years of teaching experience in certification area
B. Thirty semester credits of upper level college study in the certification area

Title: Provisional Certificate III (five years)

A. BS degree in occupational teaching area
B. Thirty-six semester credits in the occupational teaching area
C. Twelve semester credits in professional education
D. College supervised student teaching
E. 2,000 consecutive clock hours of work experience

Title: Permanent Certificate III

A. Two years of teaching experience in certification area
B. Master's degree in related field

IV. Renewal

No renewal requirements.

NORTH CAROLINA

I. Pre-employment Requirements

A. H.S. or GED
B. Licensure as designated by state regulations

II. Work Experience

A. H.S. graduate: 8,000 hours
B. Two year postsecondary occupational: 4,000 hours
C. One year postsecondary occupational: 6,000 hours
D. BS/BA in Trade & Industry Education: 4,000 hours
E. BS/BA in any other area: 8,000 hours
F. Work experience is given in months. When divided by 12, if a major fraction, it is rounded to next full year
G. Recency: one year of total work experience in the past three years

III. Certification

Title: Provisional Certificate (minimum level) (four years)

A. 21 semester credits selected from the following (must complete at rate of 2 courses per year):
1. Introduction to Vocational Education
2. Occupational Analysis

3. Methods of Teaching Industrial Subjects
4. Organization and Management of Youth Programs
5. Development of Instructional Materials and Devices
6. Educational Psychology
7. Reading (as it applies to content area)

Title: Class V Provisional Certificate
(minimum level) four years, renewal

A. Applicant progresses in a college program. Completes a minimum of 18 credits as approved by the university.
B. No time limit on reaching BS degree as long as renewal requirements kept current

Title: Class VA Provisional (minimum level)

A. BS/BA degree in any subject matter area
B. Pass NTE core battery at end of sophomore year (admission to education program)
C. Pass NTE exit test at end of BS/BA
D. Non Trade and Industrial BS degree graduates same academic requirements as Class V Provisional

Title: Regular Certificate

A. When 18 semester credits required for Class V Provisional completed, certificate is upgraded to Regular

IV. Renewal

Renewal of the Regular Certificate requires 15 units of renewal credits. Ten contact hours equal to one unit selected from:
1. College credit
2. Teaching experience (three units, maximum)
3. In-service
4. Independent study
5. Any activity approved by SDE

NORTH DAKOTA

I. Pre-employment Requirements
   A. H.S. or GED
   B. NOCTI exam not required but will substitute for one year of required work experience
   C. Licensure as designated by state regulations

II. Work Experience

A. H.S. graduate: 8,000 hours (paid worker)
B. Two year postsecondary occupational: 4,000 hours (paid)
C. NOCTI exam may substitute for one year of work experience

III. Certification

Title: Provisional Certificate (four years)

A. Thirty-six clock hours (or three quarter credits) of approved pre-service vocational teacher education
B. Twenty-one quarter credits of vocational teacher education. The following are required:
   1. Philosophy of vocational education
   2. Introduction to teaching techniques
   3. Competency based education
C. The remaining courses a student can choose, monitored by SDE

Title: Regular (five year renewals)

A. Local requirements only. The teacher submits a plan to keep up-to-date:
   1. in the occupational area, and
   2. new developments in teaching

IV. Renewal

There are no requirements at the state level, only the local level. The Regular Certificate is for five years, renewable.

OHIO

I. Pre-employment

A. H.S. or GED
B. State examination to verify basic skills.
C. Pre-service education program
D. Licensure as designated by state regulations for licensed occupations

II. Work Experience

A. H.S. graduate: 10,000 hours of which 6,000 are within last five years
B. A.S. or two year technical degree: 6,000 hours of recent work experience

C. BS/BA with 30 semester hours of technical course work related to teaching area: 4,000 hours of recent work experience

III. Certification

Title: Initial One Year Vocational Certificate (one year may be renewable a maximum of three times)

A. Pre-service education program complete upon application for this certificate
B. Minimum of four semester hours of course work for each renewal. Issued up to three times

Title: Initial Provisional Vocational Certificate
Issued upon successful completion of an approved program of teacher preparation

A. Baccalaureate Degree Program
   1. General education - 30 semester hours
   2. Professional education - 24 semester hours
   3. Curriculum content - 45 semester hours technical course work
   (and)
   4. Two years recent related work experience or a directed occupational experience
   (and)
   5. Completion of an examination prescribed by the State Board of Education
   (or)

B. Personnel Deveopment Option - issued to the holder of a one year vocational certificate upon completion of an approved pre and in-service education program of professional education course work of at least 24 semester hours.

Title: Professional Vocational Certificate
An individual who is employed full time may convert a provisional certificate to a professional certificate on evidence of three years satisfactory experience if the following is met:

A. When the provisional required a baccalaureate or less,
   1. Satisfactory completion of an entry year program
   2. A pattern of 30 semester hours of third or fourth year course work leading to mastery in the teaching field, classroom teaching, or other certificated field, since the issuance of the provisional certificate.
B. If individual holds a master's degree in the teaching field, classroom teaching, or other

certificated field, then satisfactory completion of six semester hours graduate course work in the field of certification since the issuance of the provisional certificate.

C. A provisional certificate requiring a master's degree may be converted to a professional certificate upon completion of:
   1. Entry year program
   2. Six semester hours of graduate course work in the certification field or related disciplines since the issuance of the provisional certificate.

Title: Permanent Vocational Certificate
An individual employed full-time, may convert a professional certificate to a permanent certificate with five years of satisfactory experience and:
   1. Evidence of a master's degree in the teaching field, classroom teaching, or other certificated field since the issuance of the professional certificate to be converted.
   2. The holder of a professional vocational certificate who obtained initial provisional certification with less than a baccalaureate degree, may obtain a permanent certificate upon evidence of a baccalaureate degree.

IV. Renewal

Renewal for the Provisional Vocational Certificate may be renewed on the basis of satisfactory experience if the following are met:

1. Satisfactory completion of an entry year program
2. Satisfactory completion of six semester hours of course work or 18 Ohio Department of Education Continuing Education Units (CEUs)

For each year of satisfactory experience, the renewal requirement is reduced by one semester hour or three CEUs.

If the individual has not been employed under the certificate, renewal may be obtained upon completion of six semester hours or eighteen CEUs

The renewal for the Professional Vocational Certificate may be renewed upon satisfactory experience and:

1. Completion of 12 semester hours of course work or 36 CEUs
   For each year of satisfactory experience, the requirement is reduced by one semester hour or three CEUs

2. If an individual has not been employed under the professional certificate, then 12 semester hours or 36 CEUs must be completed.

OKLAHOMA

I. Pre-employment Requirements

A. H.S. or GED
B. Licensure as designated by state regulations

II. Work Experience

A. All levels, 6,000 hours
B. Hired one year based on trade experience, then applicant must pass the NOCTI (150 below mean is passing)
C. Recency: all work in past five years

III. Certification

Title: Provisional Level I (one year, then renewable four times until completion of Provisional Level II.)

A. Complete vocational technical orientation program within 60 days of first day of school year.
B. Complete an approved plan of study for a Standard Certificate and the Provisional Level II Certificate
C. Passing score on NOCTI (second year of employment)
D. Seventeen semester credits of professional trade & industry courses at rate of at least six credits per year. Can receive 24 credits for NOCTI after completing first seventeen credits.
E. Basic courses required:
   1. Introduction to Trade & Industrial Education
   2. Instruction Procedures in Trade & Industrial Education

3. Safety Organization and Management in Instructional Activities
4. Coordinating Trade and Youth Activities

Title: Provisional Level II (five years)
A. Satisfactory teaching experience for three out of five years.
B. Fifteen semester hours toward a BS in trade & industry education

IV. Renewal

Renewal of Provision Level II requires one to complete a minimum of 15 semester credits each five year period until the BS degree Standard Certificate is reached.

Title: Standard Certificate (five years)
A. BS degree in occupational speciality area
B. Three out of five years successful teaching experience
C. Three semester hours of college credit each five years

OREGON

I. Pre-employment Requirements

A. H.S. or GED
B. Acceptable score on California Basic Educational Skills Test (CBEST)
C. Licensure as designated by State Regulations

II. Work Experience

A. All levels: Local Instruction Appraisal Committee reviews applicants records with SDE involvement. Minimum of 4,000 hours is usually recommended.

III. Certification

Title: Three-Year Special Vocational Teaching Certificate (not renewable)

A. Completion of an examination before district instructor's appraisal committee and verified as qualified according to SDE guidelines.

Title: Five-Year Special Vocational Teaching Certificate (renewable)

A. One year of successful teaching experience while holding a vocational certificate
B. Complete nine semester credits of vocational teacher preparation courses from:
   1. Methods of teaching
   2. Evaluation of learning
   3. Psychology of learning
   4. Curriculum
   5. Classroom and shop management
   6. Student organization
   7. Resource utilization
C. If applicant has already completed a teacher preparation program, the nine semester hours may be used to improve vocational competency. May be completed either as college credits or local in-service

Title: Five Year Special Vocational Certificate

A. BS/BA degree in occupational specialty area. Vocational endorsement is given for designated programs

IV. Renewals

The Special Five Year Vocational Teaching Certificate may be renewed indefinitely. Requirements include: one year of successful teaching experience is required, 120 clock hours of continued professional development (CPD) including college courses, workshops, planned experiences in industry. One semester credit is equivalent to 30 clock hours of CPD.

The renewal of the Five Year Regular Standard Teaching Certificate requires 120 clock hours or equivalent of continuing professional development.

PENNSYLVANIA

I. Pre-employment

A. H.S. or GED
B. Occupational Assessment Examination (NOCTI or other approved test)
C. Committee evaluation in areas where tests are unavailable
D. Licensure as designated by state regulations

II. Work Experience

A. All levels: 4,000 hours above the learning period
or equivalent (evaluated by an occupational assessment examination)

III. Certification

Title: Vocational Intern (three years, non-renewable)

A. Have completed pre-employment Pennsylvania Teachers Certification Testing Program (PTCTP) and NOCTI (or equivalent) requirements
B. Must be enrolled in an approved vocational teacher education program
C. Complete a minimum of 18 approved semester credits
D. Local continuing education requirements

Title: Vocational Instructional I (seven years)

A. Basic skills component of PTCTP
B. Forty-two semester credits toward a BS degree. These credits are decided by the university.
C. Initial work involves Trade & Industrial professional education and some general studies
D. Local continuing education requirements

Title: Vocational Instructional II (permanent)

A. Professional knowledge component of PTCTP
B. General knowledge component of PTCTD
C. Have completed 60 semester credits.
D. Local continuing education requirements

IV. Renewal

In order to have a permanent certificate remain active six semester credits must be obtained every five years.

Note: Teachers are awarded 24 semester hours of collegiate credit towards the B.S. degree after having earned 90 semester hours of collegiate credit and having successfully completed an occupational competency assessment.

PUERTO RICO

I. Pre-employment Requirements

A. Information unavailable

II. Work Experience

A. 6,000 hours

III. Certification

Title: Industrial Vocational Education Certification

A. Thirty semester credits in areas as follows:
   1. Principles and practices of industrial vocational education: three credits
   2. Special methods of analysis of crafts and tasks: three credits
   3. Organization and administration of school shops: three credits
   4. Evaluation in industrial vocational education: three credits
   5. Labor relations: three credits
   6. Courses which lead to the Baccalaureate degree Industrial Vocational Education: 15 credits

IV. Renewal

Information unavailable

RHODE ISLAND

I. Pre-employment Requirements

A. H.S. or GED
B. NOCTI required except in cases where none exists. In such cases the Rhode Island Credential Review Committee does an examiniation.
C. Licensure as designated by state regulations.

II. Work Experience

A. All levels: appropriate work experience as recommended by the Rhode Island Credential Review Committee. Usual recommendation: one year beyond the learning period.

III. Certification

Title: Temporary Provisional Vocational Education Certificate (one year, renewed annually; no time limit)

A. Complete six semester credits annually toward B.S. degree in the specialty .
B. Select the courses from the following areas:
   1. Methods and curriculum in teaching of vocational subjects
   2. Educational psychology
   3. History, social or philosophical foundations of education
   4. Principles of vocational education
C. Must work toward a BS/BA degree or eventually teacher can be terminated

Title: Provisional Vocational Education Certificate (ten years, not renewable)

A. BS/BA degree
B. Twenty-four semester credits from same areas delineated for previous certificate (12 hours must be in methods and curriculum)

Title: Professional Certificate (Vocational Education) (life)

A. Three years of successful teaching experience

IV. Renewal

None

SOUTH CAROLINA

I. Pre-employment Requirements

A. H.S. or GED
B. State developed occupational competency exam required as pre-employment or taken first year of employment
C. Education Entrance Examination
D. Licensure as designated by state regulations

II. Work Experience

Class III - Bachelor's Degree in appropriate field plus one year work experience or completion of a six semester hour supervised work experience program in that area of specialty through an approved teacher education program.

A. Ninety-six hours (three years) + two years work experience
B. Sixty-four hours (two years) + four years work experience
C. Thirty-two hours (one year) + six years work experience
D. H.S. graduate + eight years work experience (provisional)

Class II - Bachelor's degree + 18 hours in appropriate field + one year work experience or completion of a six-semester hour supervised work experience program in that area of speciality through an approved teacher education program.
A. Bachelor's degree + two years work experience
B. Ninety-six hours (three years) + four years work experience
C. Sixty-four hours (two years) + six years work experience
D. Thirty-two hours (one year) + eight years work experience
E. H.S. graduate + ten years work experience

Class I - Master's degree in appropriate field + one year work experience or completion of a six semester hour supervised work experience program in that area of speciality through an approved teacher education program
A. Bachelor's degree + 18 hours + two years work experience
B. Bachelor's degree + four years work experience
C. Ninety-six hours (three years) + six years work experience
D. Sixty-four hours (two years) + eight years work experience
E. Thirty-two hours (one year) + ten years work experience including one year of supervisory experience

Class I-S Specialist - An applicant shall have a Master's degree plus 30 semester hours of graduate credits in a planned program approved by the State Board of Education as follows:
A. Professional education courses in the following areas: (6-9 semester hours)
    1. Nature of the learner
    2. Psychology of learning
    3. Curriculum
    4. School and society
B. Subject matter courses in one area (18-21 semester hours)
C. Related fields, humanities, fine arts (3-6 semester hours)

D. A minimum of 60 semester hours total is required. The applicant must also meet the requirements for an initial area of certification as adopted by the South Carolina State Board of Education (plus required work experience)

Class I Advanced - An applicant shall have an earned Doctorate and shall meet requirements for an initial area of certification as adopted by the South Carolina Board of Education (plus required work experience)

III. Certification

Certification and renewal for BS/BA and above are outlined concurrently with work experience as listed above. Provisional certification follows:

Title: First Year Provisional (one year, renewable four times)

A. Minimum qualifying score on state developed occupational competency exam or equivalent
B. Six semester hours in approved professional vocational education courses. Three credits must be in Methods of Teaching Trade and Industrial Subjects
C. Completion of the Education Entrance Examination (EEE). An acceptable score is not mandated until the fifth year of employment

IV. Renewal

Fifth Year Renewal (five years)

A. Eighteen semester hours of approved professional development course work
B. By the end of the fifth year, all provisional teachers must have achieved acceptable scores on the EEE

Renewal of Standard Five Year Certificates, (BS/BA and above)

To renew a standard five-year credential at its expiration date, the teacher must present at least six semester hours or the equivalent of appropriate credit which has been earned during the five-year life of the credential. The following credit will be accepted:

A. Six semester hours of appropriate college/ university transcript credit

B. One hundred, twenty points within an approved South Carolina school district certificate renewal plan
C. Six semester hours of State Department of Education certificate renewal credit, or
D. Any combination of transcript credit, South Carolina State Department of Education in-service credit or points which provide for the total credit necessary for certificate renewal

According to regulations passed by the State Board of Education on July 9, 1982, credit presented for certificate renewal shall consist of the following:

A. A minimum of fifty percent of the credit earned for certificate renewal shall be earned within the content of the specialized body of knowledge for the area or areas of certification held by the individual or within methods of teaching that specialized body of knowledge. (College/university credit may be graduate or undergraduate.)

B. A maximum of fifty percent of the credit earned for certificate renewal may be earned within courses or activities pertaining to the nature of student learning or the nature of teaching as a profession. (College/university credit may be graduate or undergraduate.)

SOUTH DAKOTA

I. Pre-employment Requirements

A. H.S. or GED
B. NOCTI utilized by SDE only when work experience is deficient or non-approvable)
C. Licensure as designated by state regulations

II. Work Experience

A. H.S. graduate: 10,000 hours in last ten years, one year must be in last three years.
B. Postsecondary Diploma or AS degree: 6,000 hours in last seven years.
C. BS/BA in technical field: 4,000 hours in last five years
D. BS/BA in education (not vocational): 6,000 hours in last seven years
E. BS/BA in technical field (which did not offer a supervised occupational experience component): 4,000 hours in last five years

III. Certification

Title: One Year Certificate

A. Renewable only if the AS degree program is not successfully completed during first year of the program
B. Completion of associate instructor program

Title: First Five Year Certificate

A. AS degree
B. Three semester hours in Foundations of Vocational-Technical Education (if no prior teaching experience)
C. Fifteen clock hours of professional development activities in vocational education

Title: Second Five Year Certificate

A. Fifteen semester hours of professional vocational education courses selected from the following:
   1. Principles/Philosophy of Vocational-Technical Education
   2. Occupational Analysis
   3. Development of Instructional Materials/ Curriculum Development in Vocational Education
   4. Utilization of Training Aids and Devices
   5. Methods of Teaching Vocational-Technical Education
B. BS/BA degree applicants take only six semester credits

IV. Renewals (for the Five Year Certificate)

Following the second renewal of a five year certificate, applicants are required to take six semester credits of local and SDE approved courses. Renewal may be college credits, occupational work experience, workshops, industry training programs.

Half of the renewal credits may be occupational work experience credits, local division renewal credits or both. Prior approval required.

TENNESSEE

I. Pre-employment Requirements

A. H.S. or GED
B. Licensure as designated by state regulations
C. NOCTI (if determined by SDE)
D. Local responsibility for determining basic skill levels of candidates
E. Six semester credits of course work leading to licensure

II. Work Experience

A. H.S. graduate: five years current work experience
B. Postsecondary technical training of up to two years can subtract from total work experience requirements
C. SDE may substitute applicable proficiency testing for a portion of work experience requirements

III. Certification

Title: Occupational Education Certificate (three years, renewable each year)

A. Four years of successful teaching
B. If teachers are hired too late to participate, they will complete the course work prior to their second year of teaching. Teachers must complete the six semester hours in order to obtain an apprentice license. During the second calendar year in which the teacher is employed, the teacher will complete six additional semester hours; during the third calendar year in which the teacher is employed, the teacher will complete six additional semester hours for a total of 18 semester hours. Teachers must complete all course work and four years of teaching in order to obtain the occupational education license. Select from following areas:

1. Shop organization and classroom management
2. Methods of teaching trade and industrial subjects
3. Methods of teaching vocational education
4. Curriculum development
5. Organization and operation of vocational youth organizations
6. School shop safety

In addition to course work taken by the trade and industrial education teacher, the following should

be provided for each newly hired trade and industrial education teacher:

A. Periodic, coordinated visits by state consultants, local school system personnel, and teacher educators to assist new teachers during the probationary period.

B. Two all day seminars planned and conducted jointly by state consultants and teacher educators for the purpose of allowing new teachers to share ideas, problems, and concerns during the probationary and apprentice periods.

C. Four days of released time for new teachers to allow them to visit and observe experienced trade and industrial education teachers and their programs during the first year of employment.

D. The assignment of a teacher mentor to each new teacher by the local school system during the probationary year as required by CERA.

Title: Career Level I Certification (five years, renewable)

A. 240 hours of employment
or
60 clock hours of professional or technical workshops approved by SDE
B. Four semester hours of Industrial Education or the approved secondary education teacher sequence
C. Positive recommendation from the locality

Title: Career Level II (five years, renewable)

A. Five years at Career Level I

IV. Renewals

Title: Renew Career Level II (five years renewable)

A. 240 clock hours of employment
or
60 clock hours of teaching workshops
B. Four semester hours in industrial education credit
C. Positive recommendations from locality

Title: Career Level III (five years, renewable)

A. Five years experience at Level II
B. Same as A and B under Career Level I

Title: Renew Career Level III

A. 240 clock hours of employment
or
60 clock hours of technical workshops
B. Four semester hours in industrial education courses
C. Positive recommendation from locality

TEXAS

I. Pre-employment Requirements

A. H.S. or GED
B. Completion of State Board Requirements on U.S. & Texas Constitution
C. Licensure as designated by state regulations

II. Work Experience

A. H.S. graduate: 10,000 hours
B. Two Years Postsecondary Occupational Program: 10,000 hours
C. BS/BA: 6,000 hours

III. Certification

Title: Vocational Trade & Industrial Emergency Permit (one year, one renewals allowed)

A. Pass Texas Examination for Administrators/Teachers
B. Two years of successful teaching experience
C. Six semester credits of professional vocational education (three courses for permit renewal)
D. Three semester credits of Texas and U.S. Constitution (if not completed as pre-employment)

Title: Provisional Vocational Trade & Industry Certificate Pre-employment laboratory (two years)

Twenty-four semester credits as follows:
A. Development, Organization and Use of Instructional Materials
Lab and Co-op 1st year
B. Methods of Teaching Vocational Subjects
Lab and Co-op 1st year
C. Organization and Management of Instructional Environment
Lab 1st year

D. Organization and Coordination of the Vocational Industrial Cooperative Education Programs
Co-op 1st year
E. Human Relations for Vocational Industrial Instructors
Lab and Co-op 2nd year
F. Aims and Objectives of Vocational Education
Lab and Co-op 2nd year
G. Analysis and Coursemaking
Lab 2nd year

IV. Renewal

Title: Regular Provisional Trades Industrial Certificate (Pre-employment laboratory)

This is a life certificate but the pay scales encourage teachers to continue on degree programs. Local districts may require course work or in-service.

UTAH

I. Pre-employment Requirements

A. H.S. or GED not required
B. State approved occupational competency exam in lieu of work experience requirements (pending 1989; see work experience requirements)
C. Licensure as designated by state regulations; barbering, cosmetology, plumbing

II. Work Experience

A. H.S. graduate (desirable but not required): 12,000 hours
B. Maximum of four years of postsecondary education: 4,000 hours
C. Passing of NOCTI or equivalent test, occupational experience requirements are waived. Cut-off scores half S.D. below national mean. Five year limitation on using tests scores for certification.
D. Recency: Periods of one month or less and employment before sixteen years of age are not accepted

III. Certification

Title: Provisional Vocational-Technical Education Certificate (two years, renewable once)

A. Pass NOCTI or equivalent

B. Nine quarter credits or equivalent from areas listed:
   1. Concepts, principles and methods of teaching
   2. Human relations/educational psychology
   3. Curriculum development related to program area
   4. Development and use of instructional materials and aids
   5. Facility management and safety
   6. Measurement and evaluation
   7. Vocational youth organizations, equity education, cooperative education and vocational guidance
   8. Any modules taken from Performance Based Teacher Education Program (PBTE)
   9. Other special courses and workshops with prior approval by state specialists

Title: Basic Certificate (two years, non-renewable)

A. This option is designed for teachers who have a BS degree in a field other than Trade & Industrial education
B. An applicant for the Basic Vocational-Technical Certificate with endorsement(s) must have:
   1. A bachelor's degree in an approved teacher education program, including 24 quarter hours of course work in the endorsement area in which the applicant intends to teach and at least two successful years of related occupational experience
   2. A bachelor's degree with a major in the occupational field in which he/she intends to teach, including 18 quarter hours of Teacher Education course work and one year of related occupational experience
C. The trade, industrial, technical work experience requirement will be waived if the applicant successfully passes a state-approved competency examination at or above the established cut-off scores of one-half standard deviation below the national mean
D. A Basic Vocational-Technical Certificate is issued for two years and is non-renewable, except that an employing Utah local school district may recommend a one-year extension. After a maximum of three years, the Basic Certificate holder must qualify for a Standard Vocational Certificate as hereinafter described
E. If more than five years have elapsed since receiving the bachelor's or higher degree, the applicant must verify at least three years of appropriate employment in education or complete at

least nine quarter hours of approved credits within the five-year period prior to the date of application

Title: Standard Vocational Certificate (five years)

A. This certificate is issued upon completion of Provisional Certificate requirements
B. Two years of successful teaching experience
C. Completion of a total of fifteen credit hours. Half may be SDE approved inservice credit.

IV. Renewal

The standard Vocational Certificate is renewed based on teaching experience (three out of 5 years experience)

VERMONT

I. Pre-employment Requirements
   A. H.S or GED
   B. Successful score on NOCTI may waive 6,000 hours of 12,000 hour requirement for H.S. or GED
   C. Licensure as designated by state regulations

II. Work Experience

   A. H.S. graduate: 12,000 hours
   B. Apprenticeship plus 4,000 hours
   C. BS/BA: 4,000 hours (one of the two years may be part of the baccalaureate degree program)

III. Certificate

   Title: Probationary Professional Certificate (three years, can be renewed twice)

   A. Local Professional Development Plan is submitted which contains:
      1. College course work
      2. Industry training programs
      3. Curriculum development workshops
      4. SDE sponsored workshop
      5. Local activities approved in advance by SDE
   B. Three years of successful teaching experience and recommendation of employing superintendent

   Title: Seven Year Continuing Certificate

   A. Nine semester credits in the subject area or trade & industrial professional courses, plus
   B. Local professional activities plan

C. Three years of successful teaching experience and recommendation of employing superintendent

IV. Renewal

Every seven years for life. The requirements are the same as listed above.

VIRGINIA

I. Pre-Employment Requirements

A. H.S. or GED
B. NOCTI (only upon request by locality or SDE)
C. Evaluation of employment by SDE and locality
D. Licensure as designated by state regulations plus completion of two years satisfactory experience at journeyman level

II. Work Experience

A. H.S. graduate: 4,000 hours beyond the learning period
B. BS/BA: 4,000 hours
C. All work experience must be within past ten years

III. Certificate

Title: Provisional Certificate (two years, not renewable)

A. Methods of teaching trade & industrial education (three credits)
B. Laboratory Organization and Management (three credits)
C. Curriculum (three credits)

Title: Vocational Education Certificate (five years)

A. Six semester credits in any area approved by the locality.
B. Fifty percent may be non-college credit
C. Forty-eight clock hours are equal to three semester credits

IV. Renewal (five years)

A. Current requirments are the same as the Vocational Education Certificate
B. Local plan submitted: 180 points accumulated according to SDE guidelines (pending) 1989

VIRGIN ISLANDS

I. Pre-employment Requirements

A. H.S. or GED
B. Licensure as designated by regulation

II. Work Experience

A. All levels: 6,000 hours

III. Certification

Title: Temporary Certificate (Renewable every two years)

A. H.S. graduate plus 6,000 hours
B. Licensure as designated by regulation
C. Six semester credits in prescribed courses or industry sponsored workshops, on-the-job training approved by Division of Vocational Technical Education
D. Must maintain a yearly satisfactory rating by department chairperson and state supervisor

Title: Provisional Certificate (Renewable every three years)

A. Must have earned a Temporary Certificate
B. Additional five semester credits in prescribed courses
C. Must maintain a yearly satisfactory rating by department chairperson and state supervisor

Title: Standard Certificate (Renewable every three years)

A. Must have earned a provisional certificate
B. Three consecutive years of satisfactory teaching experience in an approved vocational education program within the Virgin Islands public school system
C. Must have completed 31 semester credits of course work in prescribed courses and ten semester credits of supervised teaching
D. Industry sponsored workshops, on-the-job training approved by Division of Vocational and Technical Education, may substitute for part of the college requirements

IV. Renewal (of Standard Certificate)

A. The Standard Certificate is renewable every three years upon completion of nine additional semester credits in, but not limited to vocational education
B. Industry sponsored workshops, on-the-job training approved by the Division of Vocational and Technical Education may substitute in part for college requirements

WASHINGTON

I. Pre-employment Requirements

A. H.S. or GED (desirable but not required)
B. Licensure as designated by state regulations for cosmetology

II. Work Experience

A. H.S. graduate (desirable but not required): 6,000 hours beyond the learningperiod (4,000 hours) within last six years)
B. For apprenticeable occupations: work experience equal to the learning period as defined by the State Department of Labor and Industries (4,000 hours within past six years)

III. Certification

Title: <u>One Year Vocational Certificate</u> (one year, renewable two times)

A. Three quarter credits or thirty clock hours in methods/elements of teaching trade and industrial education (prior to teaching)
B. Meet safety, industrial hygiene and first aid requirements

Title: <u>Three Year Vocational Certificate</u> (three years, renewable once)

A. Possession of a valid one-year vocational Trade & Industrial Certificate within the preceding two years
B. Vocational teaching experience of 120 hours under the previous one-year certificate
C. Total of nine quarter credits or 90 clock hours of approved vocational teacher training which must include elements/methods of teaching,

occupational analysis and course organization/ curriculum development for trade and industrial education
D. Three quarter credits or 30 clock hours of approved vocational teacher training since the last certificate
E. Possession of a valid first aid certificate

Title: Five-Year Vocational Certificate (five years)

A. Possession of a valid three-year vocational certificate within the preceding two years
B. Vocational trade and industrial teaching experience of not less than two years during the life of the previous certificate
C. Total approved vocational teacher training of 18 quarter credits or 180 clock hours which must include courses in:
   1. Methods/elements of teaching trade & industrial subjects
   2. Occupational analysis in trade & industrial subjects
   3. Course organization/curriculum development in trade & industrial subjects
   4. Student leadership development techniques in trade & industrial subjects
   5. Philosophy of vocational education
   6. Three hundred clock hours of work experience or 30 clock hours of special technical upgrading workshops as prior approved by the State Program Director of Trade & Industrial, Technical and Health Occupations Education
D. Three quarter hours or 30 clock hours of approved vocational teacher training since the previous certificate.
E. Possession of a valid first aid certificate

IV. Renewals

First Renewal for the One Year Vocational Certificate
A. Three quarter credits or 30 clock hours of approved vocational teacher training, Unit II - Occupational Analysis
B. Possession of a valid first aid certificate

Second Renewal of the One Year Vocational Certificate

A. Three quarter credits or 30 clock hours of vocational teacher training which must include curriculum development/course organization if not taken previously
B. Possession of a valid first aid certificate

Renewal of the Three Year Vocational Certificate

A. The Three Year Vocational Certificate may be renewed one time
B. Vocational trade and industrial teaching experience of 120 hours during the life of the previous certificate
C. Three quarter credits or 30 clock hours of approved vocational teacher training since the three-year certificate

WEST VIRGINIA

I. Pre-Employment Requirements

A. H.S. or GED
B. Pass California Achievement Test
C. Two week pre-service workshop taken prior to teaching
D. Passing score on NOCTI (pending) fee paid by SDE
E. Licensure as designated by state regulations

II. Work Experience

A. H.S. graduate: 8,000 hours
B. Two Years Postsecondary Occupational Program: 8,000 hours
C. BS/BA with NOCTI: 6,000 hours
D. BS/BA without NOCTI: 6,000 hours
E. West Virginia Institute of Technology Trade & Industrial degree pursuing students take NOCTI and need only 2,000 hours of work experience
F. No recency requirements

III. Certification

Title: Vocational Permit (one year, renewable annually for three years)

A. If hired too late for pre-service workshop, attend two days intensive workshop during school year and required to take the two weeks pre-service workshop the next summer
B. Six semester hours of approved professional vocational education
C. Pass content exam (NOCTI or equivalent)

Title: Vocational Certificate (five years)

A. Evidence of three years of successful teaching experience
B. Twenty semester credits from the following:
*1. Teacher orientation (one semester hour)

2. Introduction to vocational education (three semester hours)
3. History and philosophy of vocational education (three semester hours)
*4. Occupational analysis (three semester hours)
*5. Teaching methods in vocational education (three semester hours)
*6. Course construction and planning in vocational education (three semester hours)
*7. Methods of examination in vocational education (three semester hours)
8. Psychology of learning and adjustments (three semester hours)
9. Educational media materials (three semester hours)
10. Organization and management of school shops (three semester hours)
11. Safety in vocational education (three semester hours)
12. Written and spoken english (three semester hours)
13. Coordination of cooperative vocational education (three semester hours)

C. All courses marked with the asterisk must be completed and the applicant shall select the remaining courses with the approval of the State Coordinator of Industrial and Technical Education

IV. Renewal of Vocational Certificate (five year periods)

A. Six semester credits of college and SDE approved course work
B. Work can be in-service, non-college credit if approved
C. Emphasis on seminars, industry workshops and occupational work experience
D. Forty clock hours equals one semester hour (work time)
E. Fifteen contact hours equals one seminar hour (in-service, workshops, etc.)
F. Up-front approval is required from SDE and college (West Virginia Tech)

WISCONSIN

I. Pre-employment Requirements

A. BS/BA in specialty
B. Licensure as required by state regulations
C. Courses in (1) principles, issues or philosophy of vocational education (2) organization and administration of cooperative education programs

II. Work Experience

A. BS/BA plus 2,000 hours, with 1,000 hours in directly related field

B. Has related occupational experience during the ten-year period immediately preceding application for the license. The number of required hours of occupational experience for each vocational license is 2,000 hours and the requirement shall be met in one of the following ways:

1. Paid occupational experience in related occupations
2. Paid occupational experience in related occupations for at least 60% of the required clock hours, and up to 40% in either or a combination of the following:
   a. Graduate credits in technical subjects specifically related to the vocational subject for which the license is being sought. One semester credit equals 95 clock hours of occupational experience
   b. Attendance at workshops specifically related to the vocational subject for which the license is being sought. One clock hour of workshop experience may equal up to three hours of occupational experience. Approval of the state superintendent shall be obtained prior to attendance at the workshop

C. Department approved occupational internships completed for college or university credit. One hour of paid occupational internship equals three hours of paid occupational experience.

III. Certification

Title: Five Year Regular License (Renewable every five years)

Codes for special technology (related) vocational license endorsements

Technology related occupations-291, technology occupations/construction-299, technology occupations/communications-293, technology occupations/manufacturing-292, technology occupations/transportation-295. For the technology related occupations-291 license, the applicant shall hold a technology education-220 license under s. PI 3.21 (6), and shall have completed 2,000 hours of related occupational experience. For the technology occupations/construction-299, technology occupations/communications-293, technology

occupations/manufacturing-292, or technology occupations/transportation-295 license, which shall be required to teach in a specific occupational program, the applicant shall hold a technology education-220 license under s. PI 3.21 (6) and shall have completed 2,000 hours of related occupational experience, of which 1,000 hours shall be in the specific area in which the license will be sought.

IV. Renewal

A. Six semester credits approved locally
B. One half of renewal can be supervised work experience; 90 clock hours equal three semester credits

WYOMING

I. Pre-employment Requirements

A. H.S. or GED
B. Licensure as required by state regulations
C. Prescribed pre-service program (two semester credits)

II. Work Experience

A. All levels: 4,000 hours beyond the learning period

III. Certification

Title: Permit for Non-Degree Areas of Teaching Specialization (Instructors of Trade & Industrial Education ten years)

A. The applicant must submit a plan for continued professional advancement with 60 semester hours or more of undergraduate work within ten years
B. Advance at a rate of four semester credit each year
C. Demonstrate professional growth and competence on a yearly basis

IV. Renewal

Ten hours of renewal credits as determined by a professional growth committee. Renewed each ten years for life

Appendix B

Work Experience Requirements For Trade and Industrial Education Teachers

State	High School or GED Level	Post-Secondary Level (in Occup. specialty)	Baccalaureate Level	Other
Alabama	14,000 hrs.	2 yr. post-sec., 6000 hrs.		
Alaska	8,000 hrs. full time	2 yr. post-sec., Substitute up to 4000 hrs.	Degree in related occup. area, 4000 hrs.	Recommendation by training agency req'd
Arizona	6,000 hrs.	6,000 hrs.	Degree in speciality, 2000 hrs. Degrees in any area, 6000 hrs.	
Arkansas	10,000 hrs. or NOCTI plus 4000 hrs. recent exper.			
California	10,000 hrs.	AS grad or 48 sem. cr. of post-sec. occup. training, 6000 hrs	Degree in specialty, 4000 hrs.	
Colorado	10,000 hrs	1 yr. post-sec., 8,000 hrs. 2 yrs. post-sec., 6,000 hrs.	Degree in specialty, 4,000 hrs.	All work experience, must be paid
Connecticut	6,000 hrs.		6,000 hrs.	Up to 2 years of schooling may be accepted
Delaware	12,000 hrs. or 2 yrs beyond the learning period	4,000 hrs. beyond AS degree or apprenticeship	4,000 hrs beyond BS degree	NOCTI exam (or state licensure) or apprenticeship accepted as "learning period"

Appendix B (continued)

Work Experience Requirements For Trade and Industrial Education Teachers

State	High School or GED Level	Post-Secondary Level (in Occup. specialty)	Baccalaureate Level	Other
District of Columbia	6,000 hrs. at journeyman level	AS or equiv., 6000 hrs. at journeyman level	Degree in any area, 6,000 hrs. at journeyman level	Hours in bonafide programs count toward the learning period level. NOCTI counts as part of a degree.
Florida	12,000 hrs., 4,000 at journeyman level. Apprenticeship or occupational license plus 4,000 hrs at journeyman level	36 sem. cr. or AS, 4000 hours. Less than 36 cr. prorated 7½ cr. per yr., more than 36 cr prorated at 9 cr. per yr.	Degree in related field, 4,000 hrs. at journeyman level	Written statement of request from apprenticeship committee
Georgia	4,000 hrs beyond learning period		Waive one year of work experience. B.S. degree counts as learning period.	
Hawaii	B.S. required	B.S. required	3,000 hrs.	Applicants must have B.S. degree
Idaho	16,000 hrs	Post-sec. training counts on a month-to-month basis.	Degree in related field, 6,000 hrs.	Verification of unavailability of qualified applicants; local occup. comp. exam plus 6,000 hrs.
Illinois	8,000 hrs	Min. of 60 hrs. of coll. cred. (Evaluated by SDE), 2,000 hrs.	Degree in any field, 2,000 hrs.	

Appendix B (continued)

Work Experience Requirements For Trade and Industrial Education Teachers

State	High School or GED Level	Post-Secondary Level (in Occup. specialty)	Baccalaureate Level	Other
Indiana	H.S., 6,000 hrs., H.S. and NOCTI or equiv., 4,000 hrs. H.S. and apprenticeship, 4,000 hrs.		Degree in related field, 4,000 hrs.	
Iowa	6,000 hrs.	Post-sec. 2 yr. degree 4,000 hrs.	Degree in any area, 6,000 hrs.	
Kansas	4,000 hrs	*1 or 2 yr. post-sec., 4,000 hrs.	*Degree in specialty, 4,000 hrs.	*One year of work experience full time work experiencemay be subtracted if bonafide employment training.
Kentucky	8,000 hrs	2 yr. post-sec.(accredited) counts as 2,000 hrs	Completion of an accredited program counts 2,000 hours	
Louisiana	8,000 hrs.	2 yr. post-sec. 4,000 hrs at journeyman level	Degree in speciality, 4,000 hours (continuous)	
Maine	6,000 hrs beyond the learning period		Degree in speciality, 3,000 hrs	
Maryland	10,000 hrs	2 yrs. post-sec., 6,000 hrs.	Degree in specialty 4,000 hrs.	

Appendix B (continued)

Work Experience Requirements For Trade and Industrial Education Teachers

State	High School or GED Level	Post-Secondary Level (in Occup. specialty)	Baccalaureate Level	Other
Massachusetts	12,000 hrs	2 yr. post-sec., 8,000 hrs.	Degree in specialty, 6,000 hrs.	BS/BA plus masters in specialty, 4,000 hrs
Michigan	4,000 hrs.		Degree in any area, 4,000 hrs.	
Minnesota	8,000 hrs	2 yr. post-sec., 4,000 hrs.	Degree in specialty, 2,000 hrs.	
Mississippi	4,000 hrs.		Degree in any area 4,000 hrs	
Missouri	6,000 hrs consecutive	2 yr. post-sec., 4,000 hrs.	Degree in specialty, 4,000 hrs.	
Montana	10,000 hrs	2 yrs. post-sec., 6,000 hrs.	Degree in specialty, 6,000 hrs Degree in any area, 10,000 hrs.	
Nebraska	No certification offered for H.S. grads	HS grad. plus 40 sem. hrs, 2,000 hrs of paid experience (secondary) Post-secondary teachers require a min. of 4,000 clock hrs.		If more than 5 yrs. since last work exp, 1,000 hrs accepted plus 360 hrs. of supervised employment or 1,360 hrs. of continuous employment
Nevada	6,000 hrs., limited endorsement; 16,000 hrs., 3 yrs. above apprentice level for standard en-	4,000 hrs. above the apprenticeship level or equivalent		

Appendix B (continued)

Work Experience Requirements For Trade and Industrial Education Teachers

State	High School or GED Level	Post-Secondary Level (in Occup. specialty)	Baccalaureate Level	Other
New Hampshire	8,000 hrs	2 yr. post-sec., 12,000 hrs.		
New Jersey	12,000 hrs., full time	2 yr. post-sec., 10,000 hrs. full time		Must be a trade requiring a minimum learning period of 2 yrs. (Fed. Com. on Apprenticeship Training)
New Mexico	10,000 hrs.	1 yr. post-sec. certif. 4,000 hrs. 2 yr. post-sec degree,4000 hrs.	Degree in specialty, 4000 hrs.	
New York	No certification for HS grad. only	HS plus 30 sem. cr., 8,000 hrs (consecutive) AS plus 18 sem. cr. 4,000 hrs. (consecutive)	Degree in specialty. BS/BA plus 36 sem. cr., 2,000 hrs (consecutive)	
North Carolina	8,000 hrs	1 yr. post-sec., 6,000 hrs. 2 yr. post-sec, 4,000 hrs.	Degree in specialty 4,000 hrs Degree in any area, 8,000 hrs.	Work experience is given in months. When divided by 12, if a major fraction it is rounded to next full year
North Dakota	8,000 hrs. (paid worker)	2 yr. post-sec., 4,000 hrs.		

Appendix B (continued)

Work Experience Requirements For Trade and Industrial Education Teachers

State	High School or GED Level	Post-Secondary Level (in Occup. specialty)	Baccalaureate Level	Other
Ohio	10,000 hrs. of which 6,000 are in past 5 years	2 yr. post-sec., 4,000 hrs.	BS/BA with 30 sem. hrs. of technical course work, 4000 clock hrs. of recent experience	
Oklahoma	6,000 hrs	2 yr. post-sec., 6,000 hrs.	BS/BA in any area, 6,000 hrs.	
Oregon	Local Instruction Appraisal Committee reviews applicants work experience with SDE involvement. 4,000 hrs is a normal minimal recommendation.	Same as HS or GED	Same as HS or GED	
Pennsylvania	4,000 hrs beyond the learning period. Evaluated by an Occupational Assessment Examination	Same as HS or GED	Same as HS or GED	
Puerto Rico	6,000 hrs	Same as HS or GED		

Appendix B (continued)

Work Experience Requirements For Trade and Industrial Education Teachers

State	High School or GED Level	Post-Secondary Level (in Occup. specialty)	Baccalaureate Level	Other
Rhode Island	Appropriate work exp. as recommended by the R.I. Credentials Review Committee. Normal recommendation, 1 yr beyond the learning period	Same as HS or GED	Same as HS or GED	
South Carolina	16,000 hrs	Sliding scale dependent upon sem. hrs. of coll. credit. Varies from 4,000 to 16,000 hrs.	Sliding scale dependent upon sem hrs of coll. credit. Varies from 4,000 to 16,000 hrs.	
South Dakota	10,000 hrs in past 10 years, 1 yr must be in last 3 yrs.	Post-sec. diploma or AS, 6,000 hrs in past 7 yrs.	Degree in specialty, 4000 hrs. in past 5 yrs. Degree in educ. (not voc.) 6,000 hrs. in past 7 yrs.	If BS/BA degree is in a technical field with no supervised occ. exper. component, 4,000 hrs in 5 yrs.
Tennessee	Two years beyond the learning period	Post-sec occup. & AS grads, combination of tech. training & work experience can subtract from the total	Same as post. sec (if occup. training involved)	
Texas	10,000 hrs	2 yr. post-sec., 10,000 hrs.	Degree in speciality, 6,000 hrs.	

Appendix B (continued)

Work Experience Requirements For Trade and Industrial Education Teachers

State	High School or GED Level	Post-Secondary Level (in Occup. specialty)	Baccalaureate Level	Other
Utah	HS or GED (desirable, but not required), 12,000 hrs.		Four years of post-sec., or BS, 4,000 hrs.	If applicant passes NOCTI, all work experience requirements are waived. 5 yr. limitation on test scores
Vermont	12,000 hrs. or apprenticeship plus 4,000 hrs.		Degree in specialty, 4,000 hrs. (Part of work experience must be part of the degree program).	
Virginia	4,000 hrs. beyond the learning period		Degree in specialty, 4,000 hrs.	
Virgin Islands	6,000 hrs.	6,000 hrs	6,000 hrs.	
Washington	HS or GED (desirable but not required) 6,000 beyond the learning period.	6,000 hrs beyond the learning period	6,000 hrs beyond the learning period	For apprenticable occupations: work exp. equiv. to learning period as defined by State Dept. of Labor & Industry
West Virginia	8,000 hrs.	2 yr. post sec., 8,000 hrs.	Degree in specialty 6,000 hrs.	WVA Inst. of Tech students who pass NOCTI as par of program need only 2,000 hrs

Appendix B (continued)

Work Experience Requirements For Trade and Industrial Education Teachers

State	High School or GED Level	Post-Secondary Level (in Occup. specialty)	Baccalaureate Level	Other
Wisconsin	No certification for high school graduates only	No certification for anyone less than baccalaureate level	Degree in specialty plus 2,000 hrs. One hr. of pd. internship equals 3 hrs. of occupational - experience	1,000 hrs. must be in a directly related field. Paid occup. experience in at least 60% of required hrs.
Wyoming	4,000 hrs beyond the learning level	All levels the same	All levels the same	

Appendix C
Recency of Occupational Experience for Trade & Industrial Education Teacher Certification

State	Not Req	Req	Regulations	Comments
AL	X			
AK	X			All employment must be full-time
AZ	X			
AR		X	Two years "recent" experience plus NOCTI	
CA		X	One year of work experience must be in last 3 years	
CO		X	All work experience in past 10 yrs., 1,000 hrs. in last 5	All work experience must be paid
CT	X			
DE	X			
DC	X			
FL		X	Six weeks in past 2 yrs.	
GA		X	One yr. work experience must be in last 7 yrs.	
HI	X			
ID		X	Three months work experience in last 5 yrs.	
IL	X			
IN		X		
IA	X			
KS		X		One yr. must be continuous, full-time
KY		X	Two yrs. work experience must be in last 5 yrs.	
LA		X	One full yr. work experience must be in last 5 yrs. (Sec)	Post-sec. One full yr. in last 3 yrs.

Appendix C (continued)
Recency of Occupational Experience for Trade & Industrial Education Teacher Certification

State	Not Req	Req	Regulations	Comments
ME		X	One full year must be within last 5 yrs.	
MD	X			
MA		X	Six yrs. work experience must be within last 10 yrs.	
MI		X	All work experience must be within last 6 yrs.	
MN		X	500 hrs. in past 5 yrs.	
MS	X			
MO		X	All work experience must be within past 10 yrs.	
MT	X			
NE		X	*Two options (see below)	
NV	X			
NH		X		Local decision
NJ	X			All work experience must be full-time
NM	X			
NY	X			4,000 hrs. must be consecutive
NC		X	One yr. of work experience must be in last 3 yrs.	
ND	X			
OH		X	HS grad., 10,000 hrs.;6,000 hrs in last 5 yrs. BS/BA, 4,000 hrs. recent experience	
OK		X	3 yrs. of work experience must be within last 5 yrs.	
OR	X			

* Option 1: More than 5 yrs. elapsed, accept 1,000 hrs & a min. of 360 cr. hrs. of supervised work experience required. Option 2: 1,360 hrs. of supervised employment. 360 hrs.in a related field, supervised by a teacher educator.

Appendix C (continued)
Recency of Occupational Experience for Trade & Industrial Education Teacher Certification

State	Not Req	Req	Regulations	Comments
PA	X			
PR	X			
RI	X			
SC	X			
SD		X	**Varies with degree attained (see below)	
TN	X			
TX	X			
UT	X			
VT	X			
VA		X	All work experience must be within last 10 yrs.	
VI	X			
WA		X	4000 hrs. of work experience must be within last 6 yrs.	
WV	X			
WI	X			
WY	X			

** HS grad; 10,000 hrs in past 10 yrs.,1 yr in past 3 yrs.; Post Sec.: Diploma or Degree, 6,000 hrs in past 7 yrs.; BS/BA (Technical Field) 4,000 hrs. in past 5 yrs.; (Educ., not Voc Ed) 6,000 hrs in past 7 yrs.; (In tech. field, without a supervised occup. component) 4,000 hrs. in past 5 yrs.

Appendix D

Occupational Skill Evaluation Requirements for Trade and Industrial Education Teachers (Pre-employment unless otherwise noted)

State	State licensure as designated by regulation	National Occup. Comp. Inst. Exam (NOCTI) or equiv. required by SDE	NOCTI or National Teachers Exam (Teacher Core Battery)	Locality authorized to use NOCTI or equiv. No SDE requirement.	NOCTI or Colorado Teacher Exam	NOCTI by SDE as one option	State VICA exam used only on demand	Subject matter assessment (no test or system identified)	State exam to verify skills	Comments
AL	X	X								AL NOCTI pending, if licensed, not required.
AK	X									
AZ	X									
AR	X		X			X				AR H.S. grad. option 4,000 clock hrs. recent experience plus NOCTI
CA	X			X						
CO	X				X					CO NOCTI not required if licensed
CT	X							X		
DE	X									
DC	X									
FL	X	X								FL NOCTI not required if licensed.

Appendix D

Occupational Skill Evaluation Requirements for Trade and Industrial Education Teachers (Pre-employment unless otherwise noted)

State	State licensure as designated by regulation	National Occup. Comp. Inst. Exam (NOCTI) or equiv. required by SDE	NOCTI or National Teachers Exam (Teacher Core Battery)	Locality authorized to use NOCTI or equiv. No SDE requirement.	NOCTI or Colorado Teacher Exam	NOCTI by SDE as one option	State VICA exam used only on demand	Subject matter assessment (No test or system identified)	State exam to verify skills	Comments
GA	X	X								GA NOCTI not required if licensed.
HI	X									
ID	X					X				
IL	X									
IN	X	X								IN NOCTI may also be taken 1st. yr.
IA	X	X								IA NOCTI may also be taken 1st. yr.
KS	X						X			
KY	C									
LA	X	X		X						NOCTI (pending 1989)
ME	X									
MD	X					X				MD NOCTI used by applicants who wish to appeal SDE decision.
MA	X									

Appendix D

Occupational Skill Evaluation Requirements for Trade and Industrial Education Teachers (Pre-employment unless otherwise noted)

State	State licensure as designated by regulation	National Occup. Comp. Inst. Exam (NOCTI) or equiv. required by SDE	NOCTI or National Teachers Exam (Teacher Core Battery)	Locality authorized to use NOCTI or equiv. No SDE requirement.	NOCTI or Colorado Teacher Exam	NOCTI by SDE as one option	State Vica exam used only on demand	Subject matter assessment (No test or system identified)	State exam to verify skills	Comments
MI	X			X						
MN	X									
MS	X	X								
MO	X									
MT	X					X				MT NOCTI may be requested by SDE
NB	X		X							NB May include coll. cr. for NOCTI
NV	X	X								NV NOCTI pending
NH	X									
NJ	X									
NM	X									
NY	X									
NC	X									
ND	X					X				ND NOCTI will substitute for one yr. of occup. exp. requirements

Appendix D

Occupational Skill Evaluation Requirements for Trade and Industrial Education Teachers (Pre-employment unless otherwise noted)

State	State licensure as designated by regulation	National Occup. Comp. Inst. Exam (NOCTI) or equiv. required by SDE	NOCTI or National Teachers Exam (Teacher Core Battery)	Locality authorized to use NOCTI or equiv. No SDE requirement.	NOCTI or Colorado Teacher Exam	NOCTI by SDE as one option	State VICA exam used only on demand	Subject matter assessment (no test or system identified)	State exam to verify skills	Comments
OH	X								X	
OK	X									
OR	X									
PA	X	X								PA Committee evaluation in areas where NOCTI test not available
PR	X									PR Information unavailable
RI	X	X								RI NOCTI required by SDE except in cases where RI credentials committee does exams
SC	X	X						X		SC Exam may also be taken ist. yr.
SD	X					X				SD NOCTI requested by SDE only when work exp. is not approvable.
TN	X									
TX	X									

Appendix D

Occupational Skill Evaluation Requirements for Trade and Industrial Education Teachers (Pre-employment unless otherwise noted)

State	State licensure as designated by regulation	National Occup. Comp. Inst. Exam (NOCTI) or equiv. required by SDE	NOCTI or National Teachers Exam (Teacher Core Battery)	Locality authorized to use NOCTI or equiv. No SDE requirement.	NOCTI or Colorado Teacher Exam	NOCTI by SDE as one option	State VICA exam used only on demand	Subject matter assessment (No test or system identified)	State exam to verify skills	Comments
UT	X	X								UT If NOCTI passed, work exper. waived
VT	X					X				VT Passing of NOCTI may waive 6,000 hrs. of work exp.
VA	X					X				VA Student pays NOCTI fee.
VI	X									
WA	X									
WV	X	X								WV NOCTI pending. SDE pays fee.
WI	X									
WY	X									

Appendix E

Basic Skills Evaluation Pre-employment Requirements for Non-Baccalaureate Trade & Industrial Education Teachers

State	Not Req	Req	Name of Examination	Comments
AL		x	Alabama Basic Skills Test	AL pending
AK	x			
AZ		x	Arizona Teacher Proficiency Exam	AZ May also be taken 1st year of teaching
AR		x	National Teachers Exam (Teacher Battery) or Nat. Comp Testing Inst. Exam	AR The National Occupational Institute Exam (NOCTI) has both manipulative and written components. Can also be taken during 1st year of teaching. Arkansas Educational Skills Achievement Test (Pending) applicants who do not pass must take 90 hrs (6 sem cr) of math, reading & writing.
CA	x			
CO		x	California Achievement test or Basic Skills Exam	CO Oral review (optional) may be taken during 1st yr. of teaching
CT		x	Connecticut Conncept Exam Given at 2nd certif. level	
DE		x	Pre-professional Skills Test	
DC	x			
FL		x	Florida Teachers Certification Exam	
GA		x	Admission to an approved university as a degree pursuing student	GA Examination varies depending on university requirements
HI	x		Admission to an approved university	

Appendix E (continued)

Basic Skills Evaluation Pre-employment Requirements for Non-Baccalaureate Trade & Industrial Education Teachers

State	Not Req	Req	Name of Examination	Comments
ID	x			
IL		x	Standardized Test of Basic Skills	
IN		x	Test of Basic Adult Education Level D	
IA	x			
KS	x			
KY	x			
LA		x	Local Option	LA State has given authority to localities to give their own tests
ME		x	(Trying to implement BS degree requirements)	ME Pending
MD		x	National Teachers Exam	MD NTE must be taken at end of prov. certif. period
MA		x	Written proficiency test developed by state	MA Waiver for a year in emergency only
MI	x			
MN		x	Pre-Professional Skills Test	
MS		x	California Achievement Test	
MO	x			
MT		x		
NB	x			
NV		x	Pre-professional Skills Test	NV Remedial assistance may be given upon request

Appendix E

Basic Skills Evaluation Pre-employment Requirements for Non-Baccalaureate Trade & Industrial Education Teachers

State	Not Req	Req	Name of Examination	Comments
NH		x	(Currently being addressed)	NH Definitive action expected in 1989
NJ	x		Admission to an approved university	NJ Applicants must submit a plan to approved university and be accepted as a regular student. Univ. testing assures competency
NM		x	National Teachers Wxam, part B within 3 yrs.	NM Only for BS degree requirements outside of T&I
NY		x	Admission to an approved university	NY Applicants must have 40 hrs of university coursework at during 1st certific. period. Univ. testing assures competency
NC	x			
ND	x			
OH	x			
OK	x			
OR		x	California Basic Skills Test	
PA		x	PA teacher Certification Testing Programs (Basic Skills Component) Prof. Knowledge Component may be taken while teaching	PA must be enrolled in an approved vocational teacher education program Univ. testing varies
PR	x			PR Information unavailable
RI	x			
SC		x	Education Entrance Examination	
SD	X			
TN	x			
TX	x			

Appendix E

Basic Skills Evaluation Pre-employment Requirements for Non-Baccalaureate Trade & Industrial Education Teachers

State	Not Req	Req	Name of Examination	Comments
UT	x			
VT	x			
VA	x			
VI	x			
WA	x			
WV		x	California Achievement Test	
WI		x	Admission to an approved university	WI Applicants must have a baccalaureate degree, hence screening is taken care of by the university
WY	x			

Appendix F

New Teacher Orientation Courses/Workshops for Trade and Industrial Education Teachers

State	Not Req	Req	Coll Cr	Non-Coll Cr	Either Coll Or Non Coll Cr	Hrs/ Cr	Pre-employ-Ment or 1st Year	Comments
AL		x		x		30 clock hrs		AL can be taken 1st yr. with special permission of SDE
AZ	x	x						
AR	x							
CA	x							
CO		x	x			2 sem cr.	1st yr.	CO Foundations of Voc. Educ.
CT	x							
DE	x							
DC	x							
FL	x							
GA	x							
HI	x							
ID		x	x			60 clock hrs	either	
IL	x							
IN		x		x		45 clock hrs	Pre-emp. preferred	IN Taken within 60 days of initial employment
IA		x		x		45 clock hrs	1st year	
KS		x		x		30 clock hrs		KS Can be taken 1st year
KY	x							
LA		x		x		24 clock hrs	1st year	LA Pending
ME	x				x			ME may be part of local plan submitted to SDE
MD								

Appendix F (continued)

New Teacher Orientation Courses/Workshops for Trade and Industrial Education Teachers

State	Not Req	Req	Coll Cr	Non-Coll Cr	Either Coll Or Non Coll Cr	Hrs/ Cr	Pre-employ-Ment or 1st Year	Comments
MA	x							
MI	x							
MN		x	x			3 sem cr.	1st year	MN Intro to Vocational Educ.
MS		x		x		30 clock hrs.	pre-emp.	
MO		x	x			30 clock hrs	pre-emp. preferred	
MT	x							
NE		x			x.			NE Post-sec institution have their own preservice programs
NV	x							
NH	x				x	60 clock hrs	1st year	NH Local option; not state mandated
NJ	x							
NM	x				x			NM May be part of loca development plan submitted to to SDE
NY	x							NY May be part of 1st 18 cr. required.
NC		x		x		3 sem cr.		NC Intro to Voc. Ed.
ND		x			x	36 clock hrs	pre-emp.	ND Or/must take 3 qtr. hr. pre-approved voc. teacher educ. course
OH		x		x		*	pre-emp.	OH Pre-service education program. *(Hrs not given)

Appendix F (continued)

New Teacher Orientation Courses/Workshops for Trade and Industrial Education Teachers

State	Not Req	Req	Coll Cr	Non-Coll Cr	Either Coll Or Non Coll Cr	Hrs/ Cr	Pre-employ-Ment or 1st Year	Comments
OK		x		x		*	pre-emp.. preferred	OK Complete orientation program within 60 days of 1st day of school year. *(No hrs. given).
OR	x							
PA	x							PA Part of state approved staff development plan
PR	*							PR information unavailable
RI	x							
SC	x							
SD	x							
TN		x			x		1st. yr.	
TX	x							
UT	x							
VT		x			x		1st. yr.	VT Part of state approved professional development plan
VA	x							
VI	x							
WA		x		x		2 sem. cr.	pre-emp.	Methods of Teaching T&I
WV		x		x		2 weeks	pre-emp.	WV If hired too late to attend, 2 day intensive workshop during school year, then attend summer workshop next summer.

Appendix F (continued)

New Teacher Orientation Courses/Workshops for Trade and Industrial Education Teachers

State	Not Req	Req	Coll Cr	Non-Coll Cr	Either Coll Or Non Coll Cr	Hrs/ Cr	Pre-employ-Ment or 1st Year	Comments
WI	x							Required course included in college program
WY	x							

Appendix G

STATES WITH REQUIREMENTS LEADING TO DEGREE COMPLETION

Georgia	Admission to a four year program required. 2 year degree or equivalent required.
Hawaii	B.S. required initially.
Indiana	Must submit B.S. degree plan and follow through completion.
Kansas	Three year endorsement (renewable) leads to a 5 year endorsement (B.S. degree).
Kentucky	64 hrs. or A.S.
North Carolina	Must submit a university program but no time limit as long as renewal requirements are kept current.
Oklahoma	Provision Level II requirements lead to Five Year Special Vocational Certificate, requiring B.S. degree.
Minnesota	Five year license holders must work on additional licensure categories for B.S. degree applicants.
Pennsylvania	15 sem. hrs. each 5 years until a B.S. degree is reached.
Rhode Island	Must work toward the B.S. degree or teacher is eventually terminated.
South Dakota	A.S. degree before renewal of First Five Year Certificate.
Wisconsin	B.S. required initially.

NOTE: Several states have requirements which enable, but do not require the teacher to eventually meet degree requirements.

Appendix H

Trade and Industrial Education Certificate Levels and Renewal Periods

State	Certificate Titles	Time Period for Renewal/Upgrading
Alabama	1. Day Trade III	Valid 4 years
	2. Day Trade II	Valid 8 years
	3. Day Trade I	Renewal every 10 yrs
Alaska	1. Vocational Trades Certificate, Type D	Renewal every 2 yrs
Arizona	1. Provisional Voc. Cert.	Valid 1 yr, renewable
	2. Basic Voc. Cert.	Valid 6 yrs, renewable
	3. Standard Voc. Cert.	Valid 6 yrs., renewable for life
Arkansas	1. One Year Prov. Cert.	Valid 1 yr, renewable once
	2. Six Year Certificate	Annual renewal
California	1. Preliminary Credential	Valid 1 yr., may be extended upon application
	2. Clear Full-time Vocational Credential	No time limit. Only local inservice requirements
Colorado	1. Emergency Cert.	Valid 1 yr., renewable
	2. Full-time Standard Credential	Valid 3 yrs.
Connecticut	1. Initial Educators Cert.	Valid 1 yr., renewable for 1 yr.
	2. Provisional Education	Valid 8 yrs.
	3. Professional Education	Valid 5 yrs., renewable
Delaware	1. Initial Standard	Valid 5 yrs.
	2. Professional Status Certificate	Renewable 5 yrs. for life
Dist. of Columbia	1. Temporary T&I License	Valid 5 yrs., renewable annually
	2. Permanent Occup. Teachers License	Valid 5 yrs., renewable each 5 yrs. for life

Appendix H

Trade and Industrial Education Certificate Levels and Renewal Periods (continued)

State	Certificate Titles	Time Period for Renewal/Upgrading
Florida	1. Provisional Cert.	1 yr., renewable twice
	2. Regular Cert.	Valid 5 yrs., may be renewed indefinitely
	3. Advanced Vocational	Renewal until B.S. degree
Georgia	1. BT Provisional	Valid 1 yr., renewable twice
	2. NT-2 Certificate	Valid 3 yrs.
	3. PBT-2 Certificate	Valid 5 yrs.
Hawaii	1. Initial Basic Teaching Certificate	No renewal requirements unless applicant has not taught continuously and wishes to reinstate cert.
	2. Initial Professional Teachers Specialist Certificate	
Idaho	1. Interim Vocational Specialist Cert.	Valid 1 yr., may be renewed if progress shown
	2. Standard Vocational Specialist	Valid 3 yrs., may be renewed once.
	3. Advanced Vocational Specialist	Valid 5 yrs., renewable each 5 yrs for life
Illinois	1. Temporary Voc. Cert.	Valid 1 yr Renewable only if no person qualified for higher cert. is available
	2. Prof. Cert.	Life, no renewal
Indiana	1. Occupational Spec. I	Valid 1 yr., can be renewed for two years
	2. Occupational Spec. II	Valid 4 yrs., renewal every 4 yrs. for life
	3. Level III Cert. (only for A.S., B.S. degree holder outside of T&I field)	Complete B.S. degree in T&I, then renewable every 5 years

Appendix H

Trade and Industrial Education Certificate Levels and Renewal Periods (continued)

State	Certificate Titles	Time Period for Renewal/Upgrading
Iowa	1. Prov. Occup. Cert.	Valid 5 yrs.
	2. Occup. Sec. Cert.	Valid 5 yrs. Renewable each 5 yrs.
Kansas	1. First One Yr. Prov. Cert.	Valid 1 yr., renewed twice with additional requirements for each renewal (3 yrs. total)
	2. First and second renewal of 1st one year endorsement	1 yr. each renewal
	3. Three year endorsement	Valid 3 yrs., renewable indefinitely.
	4. Five year endorsement (B.S. degree)	Valid 5 yrs., renewable each 5 yrs.
Kentucky	1. One year Voc. Cert.	Valid 1 yr., 1 year renewal and up to 10 subsequent renewals
	2. Five yr. Teach. Cert.	Valid 5 yrs., renewed annually
	3. Specialist Cert. (valid for specific subjects)	One year, may not be renewed
Louisiana	1. One Yr. Voc-Tech Cert.	Valid 1 yr., renewable four times
	2. Permanent Voc-Tech Cert.	Life (no renewal period)
Maine	1. Prov. Cert.	Valid 2 yrs, renewable (1st yr. is conditional)
	2. Prof. Cert.	Valid 5 yrs, renewable every 5 yrs. for life

Appendix H

Trade and Industrial Education Certificate Levels and Renewal Periods (continued)

State	Certificate Titles	Time Period for Renewal/Upgrading
Maryland	1. Prov. Cert.	Valid 1 yr., renewable up to 3 yrs.
	2. Stand. Cert.	Valid 10 yrs.
	3. Adv. Cert.	Life, non renewable
Massachusetts	1. Prov. Cert.	Valid 3 yrs.
	2. Full Cert.	Valid 2 yrs., renewable every 2 yrs.
Michigan	1. Annual Authorization (not considered a certificate)	Valid 1 yr., renewable upon request
	2. State Secondary Cert. w/Voc. Endorsement	Valid 6 yrs. depending on date of issuances, 3 yr. renewals
	3. Temporary Voc. Auth.	Valid 6 yrs.
	4. Full Voc. Auth.	No information
Minnesota	1. Initial 2 yr. License	Valid 2 yrs., apply for subsequent renewals annually
	2. 5 yr. License (non voc. degree)	Valid 5 yrs, renewable
	3. Standard Cert. (BS/BA)	Valid 2 yrs, nonrenewable
Mississippi	1. Prov. Cert.	Valid 3 yrs, renewable once
	2. Stand. Cert. Class A	Valid 1 yr, renewable annually
Missouri	1. 2 yr. Temp. Cert.	Valid 2 yrs, may be renewed twice
	2. 5 yr. Temp. Cert.	Valid 5 yrs, renewable each 5 yrs. for life

Appendix H

Trade and Industrial Education Certificate Levels and Renewal Periods (continued)

State	Certificate Titles	Time Period for Renewal/Upgrading
Montana	1. Class 4C Prov.	Valid 3 yrs, renewable upon local request
	2. Class 4B Prov.	Valid 5 yrs, renewable ea. 5 yrs. upon local request
	3. Class 4A Cert. (BS/BA in any disc.)	Valid 5 yrs, renewable ea. 5 yrs upon local request
Nebraska	1. Secondary T&I (Field Endorsement)	Valid 3 yrs, renewable
Nevada	1. Limited Voc. Endors.	Annual
	2. Stand. Endorsement	Info. unavailable
	3. Prof. Endorsement	Valid, 5 yrs.
New Hampshire	1. Beg. Teacher Cred.	Valid 3 yrs
	2. Experienced Teach.	Local renewal (varies)
New Jersey	1. Emergency Cert.	Renewed annually. Number of renewals determined by locality.
	2. Permanent Cert.	Life
New Mexico	1. Level I Prov. Cert.	Valid 1 to 3 yrs, renewable
	2. Sec. Voc Tech Ed Cert.	Annual renewal
New York	1. Prov. Cert. I Perm. Cert. I	Valid 5 yrs
	2. Prov. Cert. II Perm. Cert. II	Valid 5 yrs
	3. Prov. Cert. III Perm. Cert. III	Valid 5 yrs.
North Carolina	1. Prov. Cert.	Valid 4 yrs. renewal
	2. Class V Prov. (minimum level)	Valid 4 yrs. renewable
	3. Class VA Prov. (minimum level)	Valid 4 yrs. renewable
	4. Regular Cert.	Valid 5 yrs., renewable

Appendix H

Trade and Industrial Education Certificate Levels and Renewal Periods (continued)

State	Certificate Titles	Time Period for Renewal/Upgrading
North Dakota	1. Prov. Cert.	Valid 4 yrs
	2. Reg. Cert.	Valid 5 yrs, renewable every 5 yrs. (local)
Ohio	1. Initial One Year Voc. Certificate	Valid 1 yr, may be renewed up to 3 times
	2. Initial Prov Voc Cert	Valid 5 yrs, renewable every 5 yrs
	3. Stand. Cert.	Valid 5 yrs, renewable every 5 yrs
Oregon	1. 3 Year Spec. Voc. Teaching Cert.	Valid 3 yrs, not renewable
	2. 5 Year Spec. Voc. Teaching Cert.	Valid 5 yrs, renewable indefinitely
	3. 5 Yr. Reg. Teach. Cert	Valid 5 yrs, renewable every 5 yrs.
Pennsylvania	1. Voc. Intern	Valid 3 yrs, non-renewable
	2. Voc. Inst. I Cert.	Valid 7 yrs.
	3. Voc. Inst. II Cert.	Valid 5 yrs.
	4. Perm. Cert.	Valid 5 yrs, renewable every 5 yrs.
Puerto Rico	1. Ind. Voc. Cert.	Information unavailable
Rhode Island	1. Temp. Voc. Ed. Cert.	Valid 1 yr, renewed annually, no time limit
	2. Prov. Voc. Ed. Cert.	Valid 10 yrs, not renewable
	3. Prof. Cert. (Voc. Ed)	Life

Appendix H

Trade and Industrial Education Certificate Levels and Renewal Periods (continued)

State	Certificate Titles	Time Period for Renewal/Upgrading
South Carolina	1. 1st Yr. Prov. Cert.	Valid 1 yr, renewable 4 times
	2. Stand. 5 Yr. Cert.	Valid 3 yrs, renewable every 5 yrs.
South Dakota	1. 1 Yr. Cert.	Valid 1 yr, renewable only if the A.S. degree is not completed
	2. 1st 5 Yr. Cert.	Valid 5 yrs.
	3. 2nd 5 Yr. Cert.	Valid 5 yrs, renewable every 5 yrs.
Tennessee	1. Occ. Ed. Cert.	Valid 3 yrs, renewable annually.
	2. Career Level I Cert.	5 yrs, renewable
	3. Career Level II Cert.	5 yrs, renewable
	4. Career Level III Cert.	5 yrs, renewable
Texas	1. Voc. T&I Emer. Permit	Valid 1 yr, 2 renewals allowed
	2. Prov. Voc. T&I Cert	Valid 2 yrs
	3. Reg. Prov. T&I Cert	Life, but pay scales encourage pursual of a degree
Utah	1. Prov Voc-Tech Ed Cert.	Valid 2 yrs, renewable once
	2. Basic Cert.	Valid 2 yrs, non-renewable
	3. Stand. Voc. Cert.	Valid 5 yrs
Vermont	1. Probationary Prof. Cert.	Valid 3 yrs, can be renewed twice
	2. 7 Yr. Cont. Cert.	Valid 7 yrs, renewable every 7 yrs.
Virginia	1. Prov. Cert.	Valid 2 yrs, not renewable
	2. Voc. Ed. Cert.	Valid 5 yrs, renewable every 5 yrs

Appendix H

Trade and Industrial Education Certificate Levels and Renewal Periods (continued)

State	Certificate Titles	Time Period for Renewal/Upgrading
Virgin Islands	1. Temp. Cert.	Valid 2 yrs, renewable every 2 yrs
	2. Prov. Cert.	Valid 3 yrs, renewable every 3 yrs
	3. Standard Cert.	Valid 3 yrs, renewable every 3 yrs
Washington	1. 1 Yr. Voc. Cert.	Valid 1 yr, renewable twice upon meeting upgrading req.
	2. 3 Yr. Voc. Cert.	Valid 3 yrs, renewable once
	3. 5 Yr. Voc. Cert.	Valid 5 yrs, renewable
West Virginia	1. Voc. Permit	Valid 1 yr, renewable annually for 3 yrs.
	2. Voc. Cert.	Valid 5 yrs, renewable every 5 yrs.
Wisconsin	1. 5 Yr. Reg. License	Valid 5 yrs, renewable every 5 yrs.
Wyoming	1. Permit for New Deg. Areas of Teach. Spec.	Valid 10 yrs, advance at rate of 4 sem. cr. per year up to 60 sem. cr.

Appendix I

Highest Level for Full Certification in Trade and Industrial Certification and Renewal Requirements

State	Certification Title and Renewal Period	Requirement to Keep Certificate in Force
Alabama	Day Trade III (10 yrs)	A. Have completed all requirements for Day Trades II B. Certificate continued by (1) teaching or (2) being a wage earner in content area for 10 yrs C. After 10 yrs, reinstated if teacher has been employed as a wage earner for one year out of last ten
Alaska	Vocational Trades Certificate, Type D (2 yrs)	Three sem. cr. and/or work experience approved by locality and SDE
Arizona	Standard Vocational Certificate (6 yrs)	Renewable every six years for life. No additional requirements
Arkansas	Six Year Certificate (6 yrs)	A. Complete requirements for One Year Provisional Certificate B. Renew each year with 5 days of inservice education/staff development decided each subsquent year of employment. Planned by local school district and monitored by SDE.
California	Clear Full-Time Credential (Life)	The Clear Full-Time Credential is a life credential. Authorization of a permanent certificate is pending. Local districts may have inservice/activity requirements, not mandated by SDE

Appendix I

Highest Level for Full Certification in Trade and Industrial Certification and Renewal Requirements (continued)

State	Certification Title and Renewal Period	Requirement to Keep Certificate in Force
Colorado	Full-Time Standard Credential (3 yrs)	6 semester credits each 5 yrs; CEUs, workshops, non-college activities are local option, approved by SDE
Connecticut	Professional Education Certificate (5 yrs)	Nine continuing education units.
Delaware	Professional Status Certificate (5 yrs)	A. Renewable each 5 yrs for life. B. Teach 3 out of 5 yrs. 5 days of inservice annually (or equiv.), reviewed by SDE.
Dist. of Columbia	Permanent Occupational Teaching License (5 yrs)	6 sem. college credits or 3 sem. college credits and equivalent of 3 sem. cr. in inservice, updating or non-credit locally sponsored programs.
Florida	Advanced Vocational Certificate	A. Completion of Regular Certificate requirements B. Minimum of 12 and maximum of 18 semester cr. in professional vocational education courses. C. Minimum of 12 and maximum of 18 sem. cr. in general and non-vocational courses. D. B.S. degree
Georgia	PBT Certificate (5 yrs)	Renew PBT-2 with 10 qtr. cr. of approved courses.
Hawaii	Initial Prof. Teach. Spec. Cert.	No renewal requirements unless applicant has not taught continuously and wishes to reinstate the certificate.

Appendix I

Highest Level for Full Certification in Trade and Industrial Certification and Renewal Requirements (continued)

State	Certification Title and Renewal Period	Requirement to Keep Certificate in Force
Idaho	Advanced Voc. Spec. (5 yrs)	Renewal upon completion of 2 approved courses from following list: A. Tests and measurements B. Advanced methods of instruction C. Vocational guidance D. Audio visual aids E. Principles/foundations of vocational education F. Coordination of cooperative programs G. Shop or laboratory organization & management H. Techniques of supervising people I. Seminars/workshops in vocational education J. Other courses applicable to the teaching assignment (approval of SDE) Also: Secure an additional 160 clock hours of employment in the specific field or 30 cumulative hours of attendance at state conferences, institutes, or workshops approved by SDE.
Illinois	Prov. Voc. Cert. (life)	No renewal requirements.
Indiana	Occup. Spec. II (4 yrs), renew until B.S. degree level is reached (Standard License, B.S. degree)	A. 6 sem. cr. in professional vocational education B. 90 clock hrs. of SDE approved inservice or 3 sem. cr. of course work plus 45 hrs. of inservice

Appendix I

Highest Level for Full Certification in Trade and Industrial Certification and Renewal Requirements (continued)

State	Certification Title and Renewal Period	Requirement to Keep Certificate in Force
Iowa	Occup. Sec. Cert. (5 yrs)	8 renewal units required. One renewal unit may be earned for each 160 days of teaching experience during the term of the certificate. A maximum of two renewal units may be earned in this manner. One renewal unit may be earned for each semester hour of credit which advances one toward the completion of a degree program. One renewal unit may be earned for each semester hour of credit completed which may not lead to a degree but which adds greater technical depth/competence to the endorsement(s) held. Renewal units may be earned upon the completion of staff development programs approved through guidelines established by the department of education or approved technical update program approved by the department of education. A maximum of five units may be earned from this section. Completion of an approved human relations component, if not already met.

Appendix I

Highest Level for Full Certification in Trade and Industrial Certification and Renewal Requirements (continued)

State	Certification Title and Renewal Period	Requirement to Keep Certificate in Force
Kansas	5 Yr. Endorsement BS Degree (5 yrs)	Eight sem. cr. to include (1) 3 sem. hrs. of vocational credit, and (2) attendance at 3 vocational workshops approved by the state board.
Kentucky	5 Yr. Teaching Cert. (5 yrs)	A. 60 clock hrs. of approved upgrading experiences B. 3 yrs of teaching or work experience in the speciality area. C. 3 sem. hrs. of credit taken from the provisional certificate may be substituted for any one year of renewal experience which may be lacking.
Louisana	Perm. Voc-Tech Cert. (life)	Completion of all 1 year vocational-technical certificate requirements. No renewal.
Maine	Prof. Cert. (5 yrs)	Submit an Action Plan. Can be college courses, inservice, CEUs or other professional or updating activities. The Teacher Action Plan is equivalent to 6 sem. cr., 15 clock hrs. equals 1 sem. cr.
Maryland	Adv. Prof. Cert. (life)	No requirements, however salary increases encourage degree completion.

Appendix I

Highest Level for Full Certification in Trade and Industrial Certification and Renewal Requirements (continued)

State	Certification Title and Renewal Period	Requirement to Keep Certificate in Force
Massachusetts	Full Cert. (2 yrs)	60 clock hrs. of professional improvement (can be gained at state conference) or 3 sem. hrs. of college credit.
Michigan	Full Voc. Auth. (life)	A. Must have achieved B.S. degree with major or minor in occupational area. No renewal listed.
Minnesota	Standard Cert. (5 yrs)	108 clock hours of updating courses, workshops including: a. work experience b. credit courses c. conferences/seminars d. continuing ed. workshops e. curriculum design act. f. occupational advisory committee responsibilities g. technical research h. service on state evaluation teams.
Mississippi	Stand. Cert. Class A (1 yr)	Complete district staff programs annually.
Missouri	5 Yr. Temp. Cert. (5 yrs)	A. Attendance at 3 out of 5 state conferences B. 3 sem. cr. of T&I course work. C. Attendance at 2 industry sponsored workshops. D. Occupational experience of 320 clock hrs. (approved) or occupational survey (data gathering in support of a program).

Appendix I

Highest Level for Full Certification in Trade and Industrial Certification and Renewal Requirements (continued)

State	Certification Title and Renewal Period	Requirement to Keep Certificate in Force
Montana	Class 4A Cert. (5 yrs)	A. 1 yr. of successful teaching experience. B. 6 sem. cr. every 5 yrs (courses approved locally) or equivalent in industry experience.
Nebraska	Secondary T&I Ed. Cert. (Field endorsement) (3 yrs)	No academic renewal requirements. Most teachers continue toward a B.S. degree because most Nebraska T&I programs are post secondary. Post secondary institutions have their own updating requirements.
Nevada	Stand. Endorsement (5 yrs)	6 sem. cr. of professional ed.
New Hampshire	Experienced Teach. Cert. (1 yr)	50 clock hrs, total 30 clock hrs in content area 20 clock hrs in pedagogical skills Local superintendent submits and monitors. This plan does not need to be approved by SDE.
New Jersey	Perm. Cert. (life)	No renewal requirements if university planned program requirements are met.
New Mexico	Sec. Voc-Tech Ed. Cert. (1 yr)	Develop and implement a professional development plan. Must be approved by local and SDE. (pending)

Appendix I

Highest Level for Full Certification in Trade and Industrial Certification and Renewal Requirements (continued)

State	Certification Title and Renewal Period	Requirement to Keep Certificate in Force
New York	Perm. Cert. III (life)	No renewal requirements
North Carolina	Reg. Cert. (5 yrs)	15 units of renewal credits 10 contact hrs. equiv. to 1 unit. Select from: A. college credit B. teaching experience (3 units, max) C. inservice D. independent study E. any activity approved by SDE
North Dakota	Reg. Cert. (5 yrs)	Local requirements only. Teacher submits a plan to stay up-to-date (1) in occupational area and (2) new developments in teaching.
Ohio	Perm. Voc. Cert. (life)	No renewal requirements
Oklahoma	Stand. Cert. (B.S.) (5 yrs)	A. 3 out of 5 yrs successful teaching experience B. 3 sem. hrs. of college credit.
Oregon	5 Yr. Voc. Teach. Cert. (5 yrs)	120 clock hrs of workshops and other activities
Pennsylvania	Voc. Instructional II Cert. (perm. but must be activated every 5 yrs)	6 sem. cr. every 5 yrs.
Puerto Rico	Ind. Voc. Ed. Cert.	Renewal information unavail.
Rhode Island	Prof. Cert. (Voc. Ed) (life)	No requirements

Appendix I

Highest Level for Full Certification in Trade and Industrial Certification and Renewal Requirements (continued)

State	Certification Title and Renewal Period	Requirement to Keep Certificate in Force
South Carolina	Stand. 5 Yr. Cert. 5 yrs	Six sem cr. or equivalent from the following: A. 6 sem. cr. of appropriate college credit B. 120 points in an approved local district plan C. Any combination of transfer credit, inservice credit (limited to 3 cr) or points to provide total credit for certificate renewal.
South Dakota	2nd 5 Yr Cert. (5 yrs)	Six credits, half of which may be work experience or local renewal credit
Tennessee	Career Level III (5 yrs)	A. 240 clock hrs. of employment or 60 clock hrs of technical workshops B. 4 sem. cr. in Indust. Ed. C. Positive recommendations from locality
Texas	Reg. Prof. T&I Cert. (life)	A. Life certificate B. Local school districts may require course work or inservice
Utah	Sec. Endorsement for Standard Cert. (life)	No renewal requirements but pay differential encourages teachers to continue pursuing degree

Appendix I

Highest Level for Full Certification in Trade and Industrial Certification and Renewal Requirements (continued)

State	Certification Title and Renewal Period	Requirement to Keep Certificate in Force
Vermont	7 Yr. Contin. Cert. (7 yrs)	A. 9 sem cr in subject area or professional T&I courses B. Local professional activities plan C. 3 years of successful teaching experience D. Recommendation of employing superintendent
Virginia	Voc. Ed. Cert. (5 yrs)	A. 6 sem. cr. in any area approved by the locality. 50% may be non-college credits. 48 clock hrs. equal to 3 sem. hrs. B. Pending. Local plan submitted for 180 pts. to be accumulated in assigned categories.
Virgin Islands	Stand. Cert. (3 yrs)	A. Must have earned a provisional certificate B. Must have 3 consective years of satisfactory teaching experience in an approved vocational education program within the Virgin Islands public school system.
Washington	5 Yr. Voc. Cert. (5 yrs)	A. 3 qtr. hrs. or 30 clock hrs of approved vocational training B. Possession of a valid first aid certificate C. 2 years satisfactory teaching experience
West Virginia	Voc. Cert. (5 yrs)	A. 6 sem. cr. of college and SDE approved course work. B. Work time: 40 clock hrs equals 1 sem. hr. C. Inservice time: 15 contact hrs. equals 1 sem. hr.

Appendix I

Highest Level for Full Certification in Trade and Industrial Certification and Renewal Requirements (continued)

State	Certification Title and Renewal Period	Requirement to Keep Certificate in Force
Wisconsin	5 Yr. Reg. License	6 sem. hrs. approved locally. One-half of renewal can be supervised work experience. 90 clock hrs. equal to 3 sem. hrs.
Wyoming	Permit for Non-Degree Area (10 yrs.)	10 hrs. of recommended credits as determined by a professional growth committee

Appendix J

Course, Workshop Requirements for Initial Trade & Industrial Certification

R-Required experiences
S-Select experiences from a given list
N-New level of cert. follows
CR-Cert. renewal of cur. certificate
X-Other (See comments)
NOTE: This Table shows the experience required to progress from the initial level of certification to the next level, which may be a renewal of the same certificate or the next level certification.

| | | PROFESSIONAL EDUCATION | | | | | | | | | | | | | | | | | | | | | | | | GENERAL EDUC | | | | | | | | | | | | OTHER | | | | | | | | | | | | | | | | | | |

Appendix J

Course, Workshop Requirements for Initial Trade & Industrial Certification (Continued)

		PROFESSIONAL EDUCATION																		GENERAL EDUC										OTHER												Total	COMMENTS
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z	aa	bb	cc	dd	ee	ff	gg	hh	ii	jj	kk	ll	mm	nn		
Arizona	Prov. Voc. Cert (1 yr, renew.)																																			x[1]	N					No cr. needed for Option A	Option A: H.S.+6,000 hrs exp. Option B: B.S.+30 sem cr + 2000 hrs work exp.
Arkansas	1 Yr Prov. Cert (Renewable once)			S	S	S				S	S																									x[1]	N	1	9			9 sem. cr.	[1]PBTE modules may be substituted for college work
California	Preliminary Credential (1 yr, may be extended)																																				CR	1	2		2 or	2 sem. cr. or equiv.	[1]2 sem. cr. (or equiv.) on U.S. Constit.
Colorado	Emergency Cert. (Renewable once)	S			S	S							S			S														x[1]							CR	3	4			4 sem. cr. plus workshop	[1]Orient. workshop (no hrs. specified) plus progress toward full time stand.
Connecticut	Prov. Ed. Cert. 8 yrs.	R			R																																N	1	6			6 sem. cr.	

Appendix J

Course, Workshop Requirements for Initial Trade & Industrial Certification (Continued)

		PROFESSIONAL EDUCATION																	GENERAL EDUC									OTHER												Total	COMMENTS
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z	aa	bb	bc	cd	de	ef	fg	gh	hi	ij	jk	kl	lm	mn	
Delaware	Initial Stand. Cert. (5 yrs)																																		x[1]		N	5			6	6 sem. cr.	[1]Approved local and state
Dist of Col	Temporary T&I License (5 yr license renewed annually)	S		S	S	S		S		S	S			S			S			S								S							x[1]		N	5	30			30 sem. cr.	[1]Electives or college lev. student teaching
Florida	Prov. Cert (1 yr, renewable twice)		R		R					R							R[1]																				N	1	9	15 wks		9 col. cr. + 15 wks intern.	[1]15 wk. intern (non coll. cr.) req.
Georgia	B-T Prov. Cert.	R			R	R								R[1]			R																				CR[2]	4	40			40 qtr hrs from areas indicated	[1]Special needs (req.) may be non cr. [2]Renew twice
Hawaii	Initial Basic Teaching Cert.						Planned by university																										X					-					BS degree required	
Idaho	Interim Voc Spe Cert. (1yr, may be renewed twice)																												R[1]	R[2]								CR	1		90		90 cl. hrs. (see com.)	[1]30 cl. hrs local plan submitted [2]60 cl hr surv. skill wkshp.

Appendix J

Course, Workshop Requirements for Initial Trade & Industrial Certification (Continued)

		PROFESSIONAL EDUCATION																			GENERAL EDUC										OTHER																Total	COMMENTS
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r		s	t	u	v	w	x	y	z	aa		bb	cc	dd	ee	ff	gg	hh	ii	jj	kk	ll	mm	nn		
Illinois	Temp. Voc. Cert (1 yr.)																																			S			CR[1]	1	3			3 sem. cr.	[1]Renewable annually only if persons qualified for Prof. Cert. not avail.
Indiana	Occup. Specialist I (1 yr., can be renewed twice)																														R[2]	R[3]							CR	1		45		45 cl.hrs. plus internship of 1 yr.	[1]Internship 1 yr. [2]Joint plan local state and univ. [3]45 cl. hr. Orientation
		Planned by university R[1]																																											
Iowa	Prov. Occup. Certificate (5 yrs.)		R		R	R	R	R[1]																						R[2]								N	5	12	90		12 sem.cr. plus 90 clock hrs. workshops	[1]Human relations workshop. [2]45 cl.hrs. orientation may be non-college cr.
Kansas	First One Year Provisional Cert. (1 yr. may be renewed twice)																																						CR	1		30		30 clock hrs.	[1]30 clock hrs. new teachers workshop

Appendix J

Course, Workshop Requirements for Initial Trade & Industrial Certification (Continued)

		PROFESSIONAL EDUCATION																		GENERAL EDUC										OTHER														Total	COMMENTS
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z	aa	bb	cc	dd	ee	ff	gg	hh	ii	jj	kk	ll	mm	nn		
Kentucky	One Year Vocational Certificate (1 yr.)																R[1]		X[2]																	CR	1	3	140 days		3 sem. cr. prof. ed. plus 140 days internship	[1]140 cl. hrs. super. internship [2]prof. ed. not specified
Louisiana	One Year Vocational-Technical Cert. (1 yr., renewable 4 times)	S	S		S	S	S		S	S	S																			R[1]						CR	1	15	24		15 sem.cr. plus 24 cl. hr. workshop	[1](pending) 24 cl. hrs.
Maine	Provisional Certificate (2 yrs., 1st. yr. is conditional)																												R[1]							CR	2				Varies	[1]Teacher action plan submitted
Maryland	Provisional Certificate (1 yr., renewable twice)				R	R	R	S		R				R					S		S															CR	1	21[1]			21 sem. cr.	[1]15 sem. cr. req. 6 sem. cr. elec.
Massachusetts	Prov. Cert. (3 yrs.)	R			R	R				R							R																			CR	3	18[1]			18 sem. cr.	[1]6 cr. in Methods, 12 cr. in other req. areas.
Michigan	Annual Auth. (1 yr. renew. at the req. of local school district)				planned by university														R[1]																			CR	1	9			9 sem. cr.	[1]9 sem. cr. in prof. voc. ed. as approved by local & SDE

Appendix J

Course, Workshop Requirements for Initial Trade & Industrial Certification (Continued)

		PROFESSIONAL EDUCATION																				GENERAL EDUC									OTHER																Total	COMMENTS
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r			s	t	u	v	w	x	y	z	aa		bb	cc	dd	ee	ff	gg	hh	ii	jj	kk	ll	mm	nn		
Minnesota	Initial 2 Yr License (2 yrs)	R															R[1]						R[2]																	CR	2	6			6 sem. cr. + 9 wk. internship	[1]9 wk. internship [2]Human Rel. completed on 1st. yr. renew.
Mississippi	Prov. Cert (3 yr renew. once)		S		S	S		S														R										R		R					CR	3	24		X[1]	24 sem. cr + 16 selec competenc.	[1]16 select. competenc. evaluated
Missouri	2 Yr Temp Cert (2 yrs, may be renew. twice)			S	R	R	S								S							S		S	S	S														CR	2	20[1]			20 sem. cr.	[1]8 sem. cr. from prof. ed. & 12 cr. from gen. ed. in areas listed
Montana	Clas 4C Prov Cert (5 yrs. non renew) Applicant must show intent to be working on Class 4	R		R	R	R				R					R				S			S		4			S													N	3	33[1]			33 sem. cr + 150 cl. hrs. of student teaching	[1]18 cr. req. in prof deg. 15 cr. from gen. ed. area listed. 150 cl. hrs of student teaching
Nebraska	Sec T&I Cert. (field endorsement 3 yrs.)	Planned by University																	R																				S[1]	S[2]	3	40			40 sem. cr.	[1]All indus. ed. related 9 cr. in prof. ed., 12 cr. in occup. spec. [2]No renewal
Nevada	Limited Voc Endorsement (not renewable)																																							X	N					No academic requirement	H.S. grad. must meet work exp. + lic. req.

Appendix J

Course, Workshop Requirements for Initial Trade & Industrial Certification (Continued)

		PROFESSIONAL EDUCATION																		GENERAL EDUC										OTHER																Total	COMMENTS
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z	aa	bb	cc	dd	ee	ff	gg	hh	ii	jj	kk	ll	mm	nn		
N. Dakota	Prov. Cert. (4 yrs.)		R			R																							R[1]								N	4	21			21 sem. cr. + pre-serv. workshop	[1] 36 hr. pre-service orient. workshop
Ohio	Initial 1 yr. Voc. Cert.(1 yr may be renew 3 times																		X										R[1]								N	1	4			workshop + 4 sem. cr. renewal	[1] Preserv. workshop, no hrs. specified
Oklahoma	Prov Levl I (1 yr., then re-new 4 times)	R		R	R						R		R																R[1]					R			R	1	17			17 sem. cr. + pre-service workshop	[1] Preserv. wkshp,no hrs specified [2] Can gain 24 sem. cr. for NOCTI upon comp. of 17 crs.
Oregon	3 Yr. Special Teach. Cert. (not renewable)	Local Community Decision																											R						X[1]		N	3				Cr. & cl. hr. may vary	[1] Local exam is given by district instructors appraisal committee
Pennsylvania	Voc. Intern (3 yrs. non renew)						Planned by university																						R[1]					R[2]	S		CR	3	18			18 sem. cr.	[1] Local req. vary [2] Must be enrol. in an approved T&I teach. ed. prog.
Puerto Rico	Ind. Voc. Cert.	R		R			R			R																										X[1]	X[2]	X[3]	30		30	30 cr.	[1] Labor rel. req. [2] Cert. levl unavailable [3] Cert. renew. req unavail

Appendix J

Course, Workshop Requirements for Initial Trade & Industrial Certification (Continued)

		PROFESSIONAL EDUCATION																		GENERAL EDUC										OTHER																Total	COMMENTS
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z	a a	b b	c c	d d	e e	f f	g g	h h	i i	j j	k k	l l	m m	n n		
New Hampshire	Beg. Teach. Cred. (3 yrs.)	Planned individually by locality & submitted to SDE.																											R[1]		R						N	3		X	X	Varies w/ locality	[1]Plan sub. to SDE which may include coll/non-coll. exp.
New Jersey	Emerg. Cert. (not renew)						Planned by university											R	R									R						R[1]			CR	1	33			33 cr prof ed + 6 hrs reading	[1]Submit univ. plan for BS w/ min. of 15 sem. cr. prof. ed.& 18 sem. cr. gen. ed. in desig. area No. of renewals is decided loc.
New Mexico	Level I Prov. Cert. (1-3 yrs. renew.)																R	R											S[1]								CR	3	15		X	15 sem. cr (approved) or local plan	[1]Local plan Optional route can be coll. or non coll cr
New York	Prov. or Perm. Cert. I (5 yrs. non renew.)																R[1]	R										R									N	5	30			30 sem. cr.	[1]18 cr. prof. ed.12 cr. of othr appr. courses Intern. may be part of the 30 cr.
N. Carolina	Prov. Cert. (4 yr.)(upgrade to Class V Prov. Cert. at end of 4 yr. period)	S		S	S	S		S		S										S																N	4	21[1]			21 sem. cr.	21 cr. from areas indicated

Appendix J

Course, Workshop Requirements for Initial Trade & Industrial Certification (Continued)

		PROFESSIONAL EDUCATION																		GENERAL EDUC									OTHER														Total	COMMENTS
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z	aa	bb	cc	dd	ee	ff	gg	hh	ii	jj	kk	ll	mm	nn		
Rhode Island	Temp. Prov. Voc. Ed. Cert. (1 yr renew annually; no time limit)	S	S		S			S																										R[1]			CR	1	6			6 sem. cr.	[1]Must show evidence of work toward BS degree or teacher may be terminated
S. Carolina	1st Yr. Prov. Cert. (1yr, renew 4 times)				R[1]														R																		CR	1	6			6 sem. cr. of prof. ed.	1 Course must be in methods
S. Dakota	1 Yr. Cert. (1 yr renew only if AS degree is not completed 1st. yr.	Planned by university																																X[1]			CR	1	64			A.S. degree completion	[1]Completion of A.S. deg. in occup. area. By spec. perm. degree may be completed 1st. year
Tennessee	Occup. Ed. Cert (3 yrs, renew annually)				S	S				S	S		S																								N	3	18	X[1]		6 sem. cr. per yr. for total of 18 cr.	[1]State approved staff dev. program
Texas	Voc. T&I Emerg. Cert. (1 yr., 2 renewals allow.)																		R[1]						R												CR	1	9			9 sem. cr.	[1]3 cr. gov. 6 cr. prof. ed.
Utah	Prov. Voc-Tech Ed. Cert. (2 yrs. renew. once)				S	S	S	S	S	S	S	S	S	S																	S						CR	2	18[1]			18 sem. cr.	[1]9 cr. 1st. 2 yrs. add. 9 cr. for 1st renew. Half may be inserv.cred

Appendix J

Course, Workshop Requirements for Initial Trade & Industrial Certification (Continued)

		PROFESSIONAL EDUCATION																		GENERAL EDUC									OTHER																Total	COMMENTS
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z	aa	bb	cc	dd	ee	ff	gg	hh	ii	jj	kk	ll	mm	nn		
Vermont	Probationary Prov. Cert. (3 yr. can be renewed twice)																												R								CR	3	X[1]			Local option	[1]Local prof plan submitted
Virginia	Prov. Cert. (2 yr. non renew.)				R	R				R																						R[1]					N	2	9			9 sem. cr.	[1]Prof. ed. courses designated competency
Virgin Is.	Temp. Cert. (1 yr. renew twice)																																		S		CR	2	6			6 sem. cr.	[1]Prescribed courses or industry spons wkshp
Washington	1 Yr Voc. Cert. (1 yr., renew twice)				R																															X[1]	CR	1	2			2 sem. cr.	[1]Meet safety ind. hygiene & 1st aid req.
West VA	Voc. Permit (1 yr. (renew 3 times)																											R		R[1]							CR	3	6			6 sem. cr. + 2 week orient. workshop	[1]60 cl. hrs.
Wisconsin	5 Yr. Reg. Lic.[1] (renew every 5 yrs.)	R						Planned by university																								R[1]										BS degree	[1]BS deg in occup spec. must incl. a course on prin voc ed
Wyoming	Permit for non-deg. areas of teach. spec. (renew after 10 yrs.)							Planned by university																													CR	10	50[1]			60 sem. cr[1]	[1]Applicant must advan. at rate of 4 sem. cr. each yr.

Appendix K

Course/Workshop Requirements for Second Level
Trade and Industrial Certification

L-Life certificate
R-Req. experiences
S-Select Experiences from given list
N-New level of certification follows
CR-Cert. Renewal of current cert.
X-Other(see comment)
NOTE: This table shows the experiences req. to progress from sec. level to cert. at the next level, which may be a renewal of the same certificate or the next level cert.

| | | PROFESSIONAL EDUCATION | | | | | | | | | | | | | | | | | | | | | | | | | | GENERAL EDUCATION | | | | | | | | | | | | | | | OTHER | | | | | | | | | | | | | | | | | | |

Appendix K

Course/Workshop Requirements for Second Level Trade and Industrial Certification (Continued)

		PROFESSIONAL EDUCATION																						GEN. EDUCATION							OTHER																	
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z	aa	ab	cc	dd	ee	ff	gg	hh	ii	jj	kk	ll	mm	nn	oo	pp	qq	rr		
AZ	Basic Prov. Cert. (6 yrs., renewable)																						R[1]																			N	6	15[1]			15 cr.	[1]Must be upper div. or grad cr courses
AR	6 Yr Cert. 6 yrs, renew annually)																																			x[1]						R	6				5 day in-serv.	[1]5 days staff dev. annually.
CA	Clear Full-time Vocational Credential (local renewal requirements only)																																			x[1]						-	L			9	9 cr. or 135 clock hrs.	[1]135 cl. hrs commission approved program of personalized instruction includes health ed. seminar
CO	Full time standard (3 yrs., renewable																																			x[1]						R	5			6	6 cr. or equiv. in non-college	[1]CEUs, work shops, non college activities are local option approved by SDE
CT	Provisional Education Cert. 8 yrs.													R									x																			R	8	x[1]			Univ. Plan	[1]complete a beginning educator & support program assessment

Appendix K

Course/Workshop Requirements for Second Level Trade and Industrial Certification (Continued)

| | | PROFESSIONAL EDUCATION | | | | | | | | | | | | | | | | | | | | | | | GEN. EDUCATION | | | | | | | | | | | | | | OTHER | | | | | | | | | | | | | | | | | | |

Appendix K

Course/Workshop Requirements for Second Level
Trade and Industrial Certification (Continued)

| | | PROFESSIONAL EDUCATION | | | | | | | | | | | | | | | | | | | | | | | GEN. EDUCATION | | | | | | | | OTHER | | | | | | | | | | | | | | | | | | |

Appendix K

Course/Workshop Requirements for Second Level Trade and Industrial Certification (Continued)

| | | PROFESSIONAL EDUCATION | | | | | | | | | | | | | | | | | | | | | GEN. EDUCATION | | | | | | | OTHER | | | | | | | | | | | | | | | | | | |

Appendix K

Course/Workshop Requirements for Second Level Trade and Industrial Certification (Continued)

| | | PROFESSIONAL EDUCATION | | | | | | | | | | | | | | | | | | | | | | | GEN. EDUCATION | | | | | | | | | | | | | | | OTHER | | | | | | | | | | | | | | | | | | |

Appendix K
Course/Workshop Requirements for Second Level
Trade and Industrial Certification (Continued)

| | | PROFESSIONAL EDUCATION | | | | | | | | | | | | | | | | | | | | | | | GEN. EDUCATION | | | | | | | | | | | | | | | OTHER | | | | | | | | | | | | | | | | | | |

Appendix K

Course/Workshop Requirements for Second Level Trade and Industrial Certification (Continued)

| | | PROFESSIONAL EDUCATION | | | | | | | | | | | | | | | | | | | | | | GEN. EDUCATION | | | | | | | | | | | | | | OTHER | | | | | | | | | | | | | | | | | | |

Appendix K

Course/Workshop Requirements for Second Level Trade and Industrial Certification (Continued)

| | | PROFESSIONAL EDUCATION | | | | | | | | | | | | | | | | | | | | | | | GEN. EDUCATION | | | | | | | | | | | | | | | | OTHER | | | | | | | | | | | | | | | | | | |

Appendix K

Course/Workshop Requirements for Second Level
Trade and Industrial Certification (Continued)

		PROFESSIONAL EDUCATION																							GEN. EDUCATION										OTHER															
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z	aa	bb	cc	dd	ee	ff	gg	hh	ii	jj	kk	ll	mm	nn	oo	pp	qq	rr		
RI	Prov. Voc. Ed. (10 yrs., non-renewable)				R	R																	R													X					N	10	42			B.S. deg. incl. 24 cr prof. ed.	B.S. degree req., incl. 24 cr. of prof. ed. 12 cr. must be in curric and methods
SC	Standard Five-Year cert. (renewable)																						S																		R	5	18			48 sem. cr.	
SD	First Five-year certificate (5 yrs.)	R[1]							Planned by university																										X	X					N	5	AS + 3	15			A.S.+ 3 cr. and 15 cl. hrs. prof. dev.	[1]A.S. deg. + 3 cr. in Foundations of Voc-Tec. Ed. also 15 cl. hrs. of prof. dev. cert.
TN	Career Level I Certificate		S															R[1]																							N	5	4			4 sem cr.	[1]240 hrs. employment or 60 hrs. of approved workshops
TX	Prov. T&I Cert.	S		S		S				S		S														S															N	2	24			24 cr.	[1]course on Occup. & Voc. Ed. Program Info also a choice

Appendix K

Course/Workshop Requirements for Second Level
Trade and Industrial Certification (Continued)

| | | PROFESSIONAL EDUCATION | | | | | | | | | | | | | | | | | | | | | | GEN. EDUCATION | | | | | | | | | | | | | | OTHER | | | | | | | | | | | | | | | | | | |

Appendix K

Course/Workshop Requirements for Second Level
Trade and Industrial Certification (Continued)

| | | PROFESSIONAL EDUCATION | | | | | | | | | | | | | | | | | | | | | | GEN. EDUCATION | | | | | | | | | | OTHER | | | | | | | | | | | | | | | | | | |

Appendix L

Courses, Workshops for Third and Successive Levels For Trade and Industrial Education Certification

State	Third & Successive Certificate Levels and Renewal Period	Level	Requirements
AL	Daytrade Type I 10 yrs.	3	1. Have completed requirements for Daytrade II 2. Certificate continued by (1) teaching, or (2) being a wage earner in content area for 10 yrs. 3. After 10 yrs. reinstated if teacher has been employed as a wage earner for one year out of past 10.
AK	No third level		
AZ	Standard Vocational Cert. 6 yrs. renewable	3	Meet qualifications for Basic Vocational Cert. (level 2) 30 sem. cr. of coursework leading toward a degree in T&I education
	Renewal of standard Voc. Cert. (6 yrs. renewable for life)	4	No renewal requirements
AR	No third level		
CA	No third level		
CO	No third level		
CT	Professional Ed. Cert. (5 yrs.)	3	18 sem. cr. in voc. ed. Select from 1. Occup. analysis 2. Meth. of Teaching 3. Test and measurements 4. Principles 5. Curriculum 6. Shop org. & mgmt. 12 sem. cr. in 4 of following areas 1. Reading development 2. Psych of learning 3. Developmental psych. 4. Audio Visual 5. Prin. of secondary ed. 6. Psych. of disadvantaged 7. Other approved areas
DE	No third level		

Appendix L

Courses, Workshops for Third and Successive Levels For Trade and Industrial Education Certification (continued)

State	Third & Successive Certificate Levels and Renewal Period	Level	Requirements
DC	No third level		
FL	Advanced Vocational Cert. (5 yrs.)	3	Completion of Regular Cert. requirements Minimum of 12 and maximum of 15 sem. cr. of general education and non-vocational courses B.S. degree
GA	PBT-2 cert.	3	Ten quarter credits of approved courses
HI	No third level		
ID	Advanced Vocational specialist 5 yrs., renewable each 5 yrs.	3	6 sem. cr. from: Tests and measurements Advanced methods of instr. Vocational guidance Audio visual methods Prin/Found. of Voc. Ed. Coordination of Cooperative Programs Shop or laboratory org. & mgmt. Techniques of supervising people Other courses applicable to teaching assignment (approval of SDE) Also: Complete 160 clock hrs. of employment in a specific field or 30 cumulative hrs of attendance at approved technical workshops, conferences or institutes.
IL	No third level		

Appendix L

Courses, Workshops for Third and Successive Levels For Trade and Industrial Education Certification (continued)

State	Third & Successive Certificate Levels and Renewal Period	Level	Requirements
IN	Occup. Specialist II renewal. Every 4 yrs. for life	3	A. 6 sem. cr. in prof. voc. ed. courses B. 90 hrs of SDE approved in-service or 3 sem. hrs. of coursework and 45 clock hrs. of non-college credit work
	Level III Cert. only for A.S. & B.S. graduates who are not T&I 5 yrs. renewable until B.S. in T&I is reached	4	A. A.S., B.S. plus license B. Standard Vocational Licensure C. 15 sem. cr. towards B.S. in T&I each year D. Complete standard B.S. degree licensing regulations. Total of 60 sem. cr. required, NOCTI counts 28 sem. cr.
IA	No third level		
KS	Three year endorsement (3 yrs.)	3	A. 3 sem. cr. of vocational education credit B. Attendance at two annual vocational workshops
	Five year endorsement	4	A. B.S. degree B. Renewable each 5 years, 8 sem. cr. of vocational education to include 3 sem. hrs. of college credit and attendance at 3 vocational workshops approved by SDE.
KY	No third level		
LA	No third level		
MN	No third level		
MD	Advanced Cert. (Life)	3	No requirements, however salary increases encourage degree completion
MA	No third level		

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Courses, Workshops for Third and Successive Levels For Trade and Industrial Education Certification (continued)

State	Third & Successive Certificate Levels and Renewal Period	Level	Requirements
MI	Temporary Voc. Authorization 6 yrs.	3	For persons who have B.S. but have not completed a professional teacher education program A. B.S. degree B. Completion of major or minor in the occupational area (or equivalent graduate credit). C. Supervised occupational experience program (unless work experience is adequate)
	Full Vocational Authorization (no info on length of time)	4	A. B.S. degree plus major or minor in occupational area B. 10 sem. cr. of professional vocational education since inssuance of Temporary Vocational Authorization of Secondary Provisional Vocational Certificate
MN	Standard Certificate 5 yrs., renewable every 5 yrs.	3	A. B.S./B.A. degree B. 108 clock hrs. of updating in designated areas.
MS	No third level		
MO	No third level		
MN	Class 4A Cert. (renewable every 5 yrs.)	3	B.S./B.A. in any discipline 6 sem. cr. every 5 yrs. for life. Courses are locally approved.
NE	No third level		
NV	No third level		
NH	No third level		
NJ	No third level		
NM	No third level		
NY	Provisional & Permanent Cert. III	3	Provisional III A. B.S. degree in occupational teaching area B. 36 sem. hrs. in occupational teaching area C. 12 sem hrs. in professional education D. College supervised student teaching

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Courses, Workshops for Third and Successive Levels For Trade and Industrial Education Certification (continued)

State	Third & Successive Certificate Levels and Renewal Period	Level	Requirements
NY(cont'd)			Permanent III Master's degree in related field (no renewal requirements)
NC	Regular Cert. 5 yrs. renewable every 5 yrs.	3	A. 15 units of renewal credits B. 10 contact hrs. equal to one credit Select from: 1. College credit 2. Teaching experience (3 units, max.) 3. In-service 4. Independent study 5. Any activity approved by SDE
ND	No third level		
OH	Professional Vocational Certificate	3	An individual who is employed full time may convert a provisional certificate to a professional certificate on evidence of three years satisfactory experience if the following is met: A. When the provisional required a baccalaureate or less, 1. Satisfactory completion of an entry year program 2. A pattern of thirty semester hours of third or fourth year course work leading to mastery in the teaching field, classroom teaching, or other certified field, since the issuance of the provisional certificate. B. If individual holds a master's degree in the teaching field, classroom teaching, or other certificated field, then satisfactory completion of six semester hours graduate course work in the field of certification since the issuance of the provisional certificate.

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Courses, Workshops for Third and Successive Levels For Trade and Industrial Education Certification (continued)

State	Third & Successive Certificate Levels and Renewal Period	Level	Requirements
OH(cont'd)			C. A provisional certificate requiring a master's degree may be converted to a professional certificate upon completion of: 1. Entry year program 2. Six semester hours of graduate course work in the certification field or related disciplines since the issuance of the provisional certificate.
	Permanent Professional Certificate		An individual employed fulltime, may convert a professional certificate to a permanent certificate with five years of satisfactory experience and: 1. Evidence of a master's degree in the teaching field, classroom teaching, or other certificated field since the issuance of the professional certificate to be converted. 2. The holder of a professional vocational certificate who obtained initial provisional certification with less than a baccalaureate degree, may obtain a permanent certificate upon evidence of a baccalaureate degree.
	Renewal, Professional Vocational Certificate		A professional certificate may be renewed upon satisfactory experience and: 1. Completion of twelve semester hours of course work or thirty-six CEU's For each year of satisfactory experience, the requirement is reduced by one semester hour or three CEU's 2. If an individual has not been employed under the professional certificate, then twelve semester

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Courses, Workshops for Third and Successive Levels For Trade and Industrial Education Certification (continued)

State	Third & Successive Certificate Levels and Renewal Period	Level	Requirements
OH(cont'd)			hours or thirty-six CEU's must be completed.
OK	Standard Certificate (5 yrs. renewable)	3	B.S. degree is occupational specialty area 3 sem. hrs. of approved college credit, 5 yrs.
OR	Five Year Regular Teaching Certificate 5 yrs,	3	B.S./B.A. in occupational specialty area, 10 sem. cr. of graduate work in vocational technical education every 5 yrs.
PA	Vocational Instructional II Certificate	3	A. Have completed 90 sem. cr. toward the B.S. degree. At this point the applicant is given 24 sem. cr. for the NOCTI B. Local continuing education requirements
	Permanent (5 yrs. renewable)	4	A. B.S./B.A. degree B. 6 sem. cr. every 5 years.
PR	No third level		
RI	Professional Certificate (Vocational Education) (Life)	3	A. MS or 30 sem. cr. of approved study beyond the B.S./B.A. B. 12 sem. cr. of approved college or non-college credit. (10 contact hours of non-college credit equal to one sem. cr.)
SC	No third level		
SD	Second 5-year Certificate (5 yrs. renewable)	3	Non-degree applicants A. 15 sem. cr. of professional vocational education courses selected from: Prin/philos. of vocational technical education Occupational analysis Development of instructional materials/curriculum development in vocational education Utilization of training aids and devices Methods of teaching Vocational -technical education B. B.S. degree renewal applicants take only 6 cr.

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Courses, Workshops for Third and Successive Levels For Trade and Industrial Education Certification (continued)

State	Third & Successive Certificate Levels and Renewal Period	Level	Requirements
SD(cont'd)			C. After second renewal of 5 yr. certificate, applicants take 6 cr., half of which may be work experience credit or local renewal credit.
TN	Career Level I Cert. (5 yrs. renewable)	3	A. 240 hrs. of employment or 60 cr. hr. workshop approved by SDE B. 4 sem. cr. of industrial education or the approved secondary education sequence C. Positive recommendation from the locality
	Career Level II Cert. (5 yrs. renewable)	4	A. Five yrs. at Career Level I B. Same as Career Level I requirements C. Same as Career Level I requirements
	Career Level III Cert.		A. Five yrs. at Career Level II B. Same as Career Level II requirements C. Same as Career Level II requirements
TX	Regular Professional T&I Cert. (Life)	3	A. Issued upon completion of provisional certificate requirements. Life certificate, but pay scales encourage teachers to pursue the degree B. Local districts may require course work or inservice
UT	Secondary Endorsement for Standard Certificate (5 yrs. renewable)	3	B.S. degree in T&I. School district has pay differential which encourages teachers to pursue a degree
VT	No third level		
VA	No third level		
VI	Standard Certificate (5 yrs. renewable)	3	A. Must have earned a Provisional Certificate B. No further course work but renewal is based on years of Teaching experience.

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Courses, Workshops for Third and Successive Levels For Trade and Industrial Education Certification (continued)

State	Third & Successive Certificate Levels and Renewal Period	Level	Requirements
WA	Five Year Vocational Certificate, (5 yrs., renewable)	3	A. Possess the 3 year certificate (within preceding 2 yrs.) B. 12 sem cr. or 180 clock hrs. in following areas: Methods Occupational analysis Course organization (curriculum) Student leadership techniques Philosophy of vocational education C. 300 clock hrs. of work experience or 30 clock hrs. of special technical upgrading workshops approved by SDE D. Possession of valid first aid certificate
WV	No third level		
WI	No third level		
WY	No third level		